







### 2018 – 2019 **Highlights**

- 500,000 + direct downloads of Artificial Intelligence for Starters free ebook to stimulate interest in AI through case studies and inspirational contribution from leading AI experts including Prof Yoshua Bengio, Professor Emeritus Thomas G. Dietterich & Prof. dr. M. (Max) Welling
- 10,212 participants in the 1st ever Intercampus Machine Learning competition
- **12,234** online participants in Data Science courses from registration to at least one class
- Over 2000 hours of free classes in Data Science and Machine learning applications in different states across Nigeria

### **OUR VISION**

To build a world-class Artificial Intelligence knowledge, research and innovation ecosystem that delivers high impact and transformational research, business use applications, Al-first start-ups, employability and social good use cases; such that in 10 years, Nigeria will become one of the top 10 Al talent/knowledge destinations with 20% GDP multiplier impact.

#1million\_AlTalents\_in\_10\_years

- **2,000** USBs (2Terrabyte) containing over **10,000** publicly available Al learning videos from top Al schools distributed FREE in **72** cities/campuses
- **310** direct job placement, project participation and internships
- 48 research students being supported and mentored in high-impact higher degrees (MSc/PhD)
- > 5000 students across 30 cities received Free Introductory Machine Learning classes 4 innovative product idea
- Over 200,000 views on YouTube online learning channel on Machine Learning and Deep Learning





twitter tweets

# Welcome Speech

It has been an incredible 30 months of growth and advancing an inclusive capacity building and application of Artificial Intelligence (AI) in Africa's largest economy and most populated Black nation, Nigeria.

The momentum has been sustained through the continuous refinement of our vision to expand the Nigerian AI talent pool to 1 Million in 10 years by building a world-class AI learning community that delivers high impact knowledge to promote employability, business impact, research and social good use cases. The delivery and distribution has also been enhanced with 24 unique home-grown platforms being deployed across all socio-economic class, cities and learning segments to deepen awareness, adoption and application.

We have expanded on our knowledge approach with a more inclusive model. We disrupted traditional access to knowledge through the compilation of AI Knowledge Box. This is a freely distributed and first-of-its-kind external drive housing 10,141 learning videos, downloaded from diverse AI learning platforms of top international Artificial Intelligence universities, leading global Machine Learning researchers and first-rated AI conferences across the world.

This was complemented with many face-to-face immersion classes, with the biggest being the Al Invasion, a unique learning platform that provide an opportunity to teach thousands of enthusiasts in 30 cities in Nigeria. The session catalysed the passion of many and validated our long-standing point of view that talent is indeed everywhere and the best model must always reach out to all indiscriminately.

Our commitment to nation building and transformational application of AI for social good received necessary boost with our increased focus on projects aligned to Sustainable Development Goals, which can be solved through the instrumentality of artificial intelligence. The newly expanded AI Hub that we opened in Yaba, Lagos allowed us to set up an AgroAI Lab on weather prediction for optimal agricultural yield. In

addition, we focussed researched on financial inclusion through the development of a crowdsourced fraud prevention app that uses text messages on financial fraud. Our work on educational research through AI Class Monitor also received necessary boost.

In the last one year, we have seen great impact. With 300,000+ direct download of our Artificial Intelligence for Starter free ebook to stimulate interest in Artificial Intelligence through use cases and inspirational contribution from leading global AI experts including Prof Yoshua Bengio, Professor Emeritus Thomas G. Dietterich and Prof. dr. M. (Max) Welling. Over 10,212 participated in the 1st ever Intercampus Machine Learning competition while 12,234 online students participated in our Data Science courses – from registration to at least one class. Our current 2019 AI bootcamp online classes has seen over 150,000 Youtube views.

We continue to lead on industry relevance as the major talent pipeline to leading Nigerian companies and a platform to upskill brilliant and well-motivated students through internship programme.

We have indeed moved from basic knowledge to solutionoriented research, leveraging our global learning network for quality standardisation and support benchmarks.

The last two years have given us necessary push to explore new possibilities through initiatives like AI Summer Schools for Kids, AI Masterclass sessions for top business executives in Nigeria, industry-oriented hackathons, PhD Researchers mentoring through a global network of world-class AI experts, direct job placement, Learning-based Kaggle competitions, development of Nigeria-centric Machine Learning/Deep learning curriculum/online learning platform, AI+ Clubs in secondary schools, Artificial Intelligence Bootcamp and dial-in masterclass facilitated by leading global data scientists.

Our passion for financial inclusion use cases explain our partnership with the Lagos Business School to execute a strategic project for Bill and Melinda Gates Foundation.

### 

As we look into the years ahead, we are inspired that we are on the right trajectory of impact and we will continue to scale up sustainably to deepen local relevance and global networks for optimal application. As we finalise the last phase of our three-year strategic roadmap and roll-out our new 5-year supercharged plan, which focus on world-class structured academic programme in Nigerian, partnership for research lab and multidisciplinary industry use cases.

It is time for Africa to build the requisite capacity in Big Data, Machine Learning and Deep Learning at a quantum that brings the best of academic research and industry application to solve fundamental local problems

Our drive for impact is clear and with the support of our growing partners and community members, we will make every data point count.

### **Bayo Adekanmbi**Founder and Lead Mentor,

Data Science Nigeria





## INCLUSIVE LEARNING

### Al Everyday for all Classes

Our end-to-end Artificial Intelligence (AI) capacity building model aimed at raising one million AI talents in 10 years, supports all levels of learners in a multidisciplinary context. We are positioned to offer diverse learning channels to everyone, everywhere from complete beginners, elementary students, business executives, business users, enthusiasts, core researchers, face to face or even the self-taught students through our AI Knowledge Box. We are proud to offer something for everyone.

#### 

With this viewpoint, our new Al Hub kicked off daily classes to address various learning stages a explored below:

Monday & Thursday

**Pre-University Intro Python/ML Class** (10-1pm)

5 weeks of 10 classes twice per week

Tuesday

**Deep Learning/Fast.ai Masterclass** (3-5pm) 10 weeks

Wednesday

Introductory Python (12-2pm) 8 weeks

Wednesday-

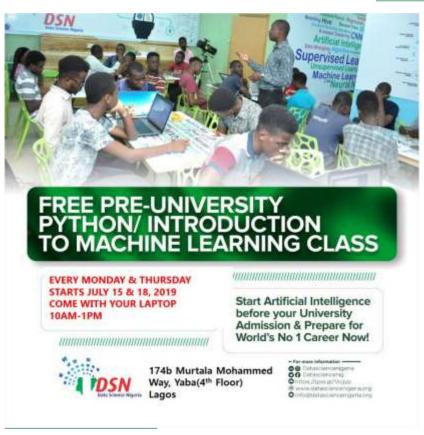
**Beginners Class in Machine Learning** (3-5pm) 8 weeks

Friday-

Al4Good Lab focused on SDGs (12-2pm)

### Running daily classes in Articial Intelligence for all levels at the dedicated AI Hub







### Al Hub Expansion to mainstream Yaba Tech ecosystem

We relocated to a bigger space within the Yaba innovation cluster to serve as an Al Hub and Al Ideas Pre-Incubation Centre that can host 100 students in a single class. The new location also offers small co-working offices for Alfirst start-ups as well as a study room for enthusiasts.

The hub has a library, research centre and a mini-lab and runs daily free Al classes for different audience groups.

### Al Hub Library

We believe that the ability to offer theory-based self learning at scale is critical to building AI ecosystem, especially structured knowledge that are not commonly available in videos or online writings.

We opened a dedicated 10-seat study room to enable students to read without distraction and we continue to stock our mini-library at the Al Hub Yaba, Lagos.

#### **Growing Beyond Lagos:**

Al Communities in Jos, Ekpoma, Akure, Abeokuta and Ife. We have seen significant progress in the evolution of the Al community within Data Science Nigeria's sphere of influence outside Lagos. We are proud of our branded, growing communities that meet on regular basis for best practice knowledge sharing in Jos, Ekpoma, Abeokuta, Akure and Ife.

### Al EveryDay





#### Al Hub







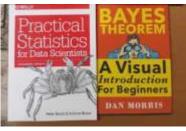
### **AI HUB LIBRARY**

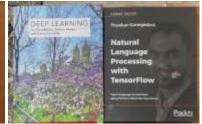
















# DISRUPTING ACCESS TO KNOWLEDGE

### AI+ Knowledge Box

a collection of over 10,000 FREE learning videos. No longer will challenges of internet cost, electricity fluctuation and poor download speed affect the passion of self-driven learners of AI in Nigeria. Each box contains over 10,100 free learning videos from top AI schools, top Machine Learning researchers in the world, and top global AI conferences. The Knowledge Box has been distributed via the AI+ Community champions/clubs in cities and campuses across the country. It is also available at the AI Hub. This is a truly indigenous model to truly democratise AI learning and change the capacity narrative in Africa.

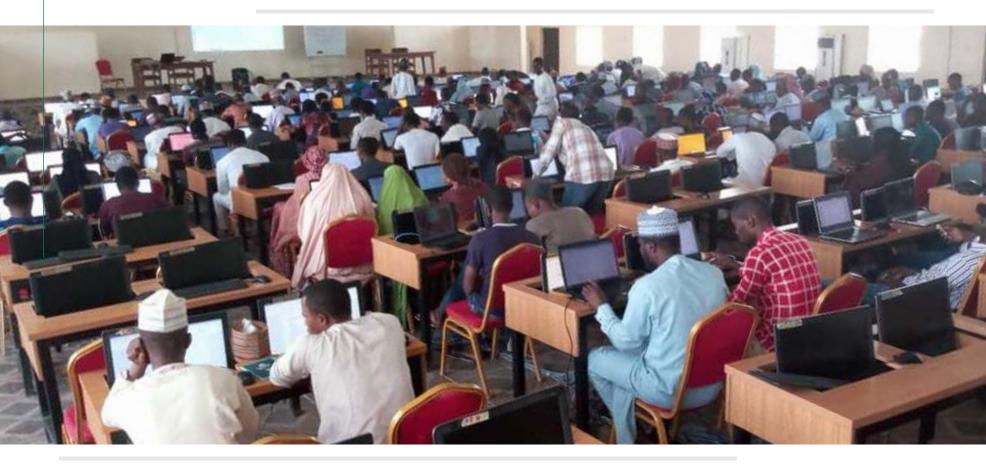






### Al Invasion: Democratizing the Knowledge of Al in Nigeria

The sustainability of our learning model is now validated with past beneficiaries of our programme investing back into the ecosystem as volunteer tutors across the country. With this sequence of multi-layered knowledge cascade, we can contribute to making Nigeria the an AI Hub within 10 years.



The Al Invasion presented an amazing opportunity to our tutors, gracious hosts, and fabulous partners to deliver the most robust machine learning training introduction in 30 cities. We also enjoyed the opportunity to share our Al Knowledge USB of over 10,000 learning videos to many Nigerians through this channel.

### **Key Highlights**

- Over 70 cities volunteered to host the Al Invasion
- · Over 90 tutors participated in the 30 day Al Invasion
- 30 hours of learning was delivered in 30 cities across the country covering all 6 geo-political zones
- · Tutors travelled about 10,000 km in 30 days to democratize the learning of Al
- · A comprehensive curriculum was developed for the 30 days of learning
- · Approximately 30 tutors participated in 30 different locations across the country for 5 days
  - Al Knowledge Boxes were distributed in 30 cities Al Invasion attendees included academic, entrepreneurs, industry practitioners, students and even teenagers.









### 100 days of Machine learning via online classes on YouTube

Data Science Nigeria kicked off the 2019 Bootcamp qualification with the 100days Machine Learning on May 1, 2019 via YouTube link at https://bit.ly/2KXRZwe

The online classes have seen over 150,000 views with a follow-up weekend discussion session held via the Slack platform to answer questions from participants.

### Al for Pre-University Students

schools students awaiting university engagement class to prepare them for university and the multidisciplinary opportunities that Machine learning help students build new skills in the number one career of the future and ready for weekly assignment.

position themselves for a brighter This is an introductory class for high tomorrow. This is a fantastic opportunity to learn how to code in Python and how admission. This a strategic cognitive to apply this via an Introductory Machine Learning course. Our Pre-University Classes run twice per week (Monday and Thursdays - 10am to 1pm.) presents regardless of which field of for 5 weeks - making a total of 10 classes. study they finally choose. Our intent is to All classes are free but students are expected to come with laptops and be





# SUPPORTING COMMUNITY BUILDING

### IndabaX Sponsorship

We were one of the local sponsors of first-ever IndabaX Nigeria and excited to be part of the vision of the broader DeepIndaba, the pan-African Machine Learning Community The conference was held at the University of Lagos and our team was on hand to answer questions about our Artificial

Intelligence Bootcamp, AI Knowledge Box, AI Hub, AI information pack, AI e-books, AI Invasion, AgroAI Lab, Financial Inclusion Lab, and many more initiatives.















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IndabaX Nigeria 2019 featured inspiring classes and research into best practices, with over 300 participants having ignited their passions for AI and developing new skills in reinforcement learning, deep learning and natural language processing. We also gave a special scholarship grant to the best female student in the poster session who also received second place overall. The grant will allow Opeoluwa Iwashokun to attend the Deep Indaba conference in Nairobi in August, 2019







#### Meetup with Andela ALC and Google

Data Science Nigeria also hosted a meet-up for the Andela Nigeria ALC with Google 3.0 that further demonstrated our commitment to developing the ecosystem. As a practice, the Al Hub facility is free for learning as well as related industry events.

### Insight2Impact South Africa DataHack4Fi-first edition in Nigeria:

Data Science Nigeria was also the local partner for the first edition of the Pan-African Data Science for financial inclusion Hackathon, sponsored by Mastercard, Microsoft and Liquid Telecoms. We also partnered as the local host for the Digital Payment workshop held as part of the Hackathon briefing unveiling in Nigeria



### Presence at the Foorloop Africa

Founder of Data Science Nigeria, Bayo Adekanmbi, gave a keynote talk at Forloop Africa Summit, the biggest gathering of software developers in Nigeria to share insights on Al as the next frontier of high-impact socio-economic development. Mr Adekanmbi explained how

"we are not coders because we write codes but because we decode problems and offer solutions that are codeless - that is, intuitively simple, meaningful, relevant & foolproof."









# DEEPENING ARTIFICIAL INTELLIGENCE APPLICATION IN FINANCIAL INCLUSION

### Artificial Intelligence Summit on Financial Inclusion

The potential for Al to be a game changer in the 21st century was demonstrated at our 1 day Artificial Intelligence for Financial Inclusion Summit held October 2018. The summit explored the possibilities of using non-traditional data and advanced analytical techniques that include image, video and sound to explore the theme, "New Algorithms for the Thin File segment". In his opening keynote address, Microsoft

Nigeria Country Manager, Mr Akin Banuso, discussed how the use of sophisticated tools such as Microsoft's Azure Machine Learning platform can accelerate the use of real-time artificial intelligence for financial inclusion, especially by combining three advanced technologies: machine learning, natural language processing and cognitive computing. "Al makes it possible to circumvent traditional challenges with onboarding the unserved and underserved population," he explained.

Mr Ade Sonubi, Managing Director of the Nigeria Inter-Bank Settlement System Plc (NIBSS), demystified the concept of financial inclusion by profiling the various segments within the exclusion matrix while advocating for the use of multiple data points to understand the peculiarities of each typology. This was corroborated by Matt Grasser, Director - Inclusive Fintech, Bankable Frontiers Associate, USA, who in his guest lecture dramatized increased possibilities through the use of non-traditional data to understand the excluded segment and how Al can be used for effective profiling, risk scoring and simplified service delivery interface.

The panel discussion further reflected the critical levers of financial inclusion including a clear imperative for the best use of data, effective policies, local innovation and crossindustry collaboration. Panel members included DrYinka David-West, Temitope Akin-Fadeyi, Olu Akanmu, Dele Adeyinka, Aderemi Atanda and Uwa Uzebu.

Global best practices and use cases of Al applications were also shared by Lawrence Muthoga of Microsoft (facial recognition), Ekow Duker of Ixio Analytics, South Africa (insurance inclusion), Karim Beguir of Instadeep Al, London (geospatial insights), and Dr Jacques Ludik of Cortex Logic, South Africa.

















# GLOBAL FOOTPRINT

### Al4Dev workshop Kenya Participation

Data Science Nigeria was invited as part of the first-ever pan Network of Excellence in Artificial Intelligence for Development (AI4D) in Africa. The event hosted leading AI experts, ethicists, policy makers and other stakeholders on the 3rd to 5th of April 2019 at Strathmore University in Nairobi, Kenya to discuss the path to building the African A ecosystem for impact through research, innovation and educational platforms. This is an initiative of the government of Canada through its International

Development Research Centre (IDRC), the Swedish International Development Cooperation Agency, Knowledge 4 All Foundation, and the UNESCO Chair in Artificial Intelligence.













#### Al Summit Switzerland

Through the support of the MIIA South Africa, Data Science Nigeria was showcased at the ITU AlforGood Summit in Geneva in June 2019. Data Science Nigeria was present at the MIIA stand .We are particularly thankful for the assistance of Dr Jacques Ludik and Dr Nick Bradshaw.

Al and Robotic Lab in Nigeria – advancing the Japanese partnership

Data Science Nigeria Al Hub hosted the Japanese Embassy envoy from Japan, South Africa and Abuja offices. We had Mr. Takashi Konno, Director, Technical Division, Japanese Ministry of Economy, Trade and Industry, Tokyo, Japan; Mr. Masa Sugano, Director Japan Trade Organisation based in Johannesburg, South Africa; Mr. Yasuhiro Hashimoto, Head of Economic Section, Japanese Embassy, Abuja, Nigeria; and Mr. Kei Kondo, Japanese Ministry of Economy, Trade and Industry, Tokyo, Japan.

The engagement explored four strategic possibilities with the biggest being the mobilisation of the Japanese Al research community giants to build a world-class Artificial

Intelligence/Robotics Laboratory in Nigeria. This is in addition to the confirmed opportunity to access the Japanese AI research/learning community for mentorship, best practices and support during our bootcamps and learning events. Our own Ayo Olabiyi, showcased Data Science Nigeria's Check4Me solution and Opeoluwa Awolusi Iwasokun shared her Palm recognition solution while Adeola Adesina spoke briefly about the Drugger solution which is at the intersection of pharmacy and AI. All presentations were well received by the Japanese Embassy.



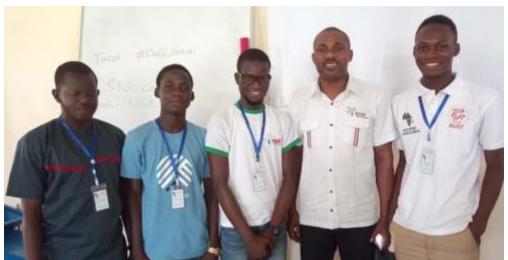














# PAN-AFRICAN RELEVANCE

### $United\,Nation-Sponsored\,Data\,Science\,Africa\,Abuja$

Convener of Data Science Nigeria, Bayo Adekanmbi, was the keynote speaker at the Data Science Africa 2018 Workshop, a United Nations Pulse Lab organized event and the first edition in Nigeria. The event was sponsored by Google, Facebook and Amazon and was hosted by the African University of Science and Technology, Abuja. Mr Adekanmbi spoke on building world-class capacity and advocating for Al in Africa to solve

local problems by contextualizing learning with problem-solving skills.

He encouraged the participants to build world-class capacity through the access provided by best-in-class online materials and videos from top universities in the world. He also charged them to read Arxiv Machine Learning papers and find how best to make these locally applicable for industry and social

impact. He further charged the participants to participate in competitions on platforms such as Kaggle and Zindi, as a platform to validate their learning and work on industry-level dataset.

### Zindi Launch in Nigeria and how we lead the pan-African ranking

Zindi is the first data science competition platform in Africa and it hosts an entire data science ecosystem of scientists, engineers, academics, companies, NGOs, governments and institutions focused on solving Africa's most pressing socio-economic and environmental challenges. Zindi is building a vibrant community of data scientists across Africa, mobilized towards solving the region's most pressing problems.

Data Science Nigeria hosted its unveiling at the Al Bootcamp 2018 which held October 2018 in Lagos. Zindi has proven to be a true platform for data scientists in Nigeria to collaborate, compete and learn and indeed focussed to solve Africa's unique problems.

As at June 2019, Data Science Nigeria has six out of the top 10 data scientists on the Zindi leaderboard. Our community members have also led all the leading competitions ran on the Zindi platform. Olamide Oyediran won the Zindi Africa's Sustainable Development Goals Text Classification Challenge by classifying text/documents by relevance to 27 indicators in the health/well-being areas. Stephen Oni was 3rd in the competition. Eniola Olaleye was 3rd in the Busari health Challenge while Emmanuel Micheal was 2nd in the Sea Turtle Rescue Error Detection Challenge.

### Ivorian Student from Morroco at the Bootcamp

We are opening up our ability to add value beyond the four walls of Nigeria by creating an opportunity for non-Nigerian students to participate in the Al Bootcamp, Lagos, through fully sponsored travel grants. Ismael Kone – the winner of Deep Learning Kaggle Preselection Competition, is a Morrocobased Ivorian PhD student at Moulay Ismail University in Morocco. He went through the pre-study and Kaggle competition on Recommendation Algorithm. His approach on this project and thoughts of other participants are accessible via He was awarded a Data Science Nigeria travel grant to fly to Nigeria to attend the bootcamp 10-14 October in Lagos. This is further demonstration of the growing pan-African Al community, where any talent in the continent can find a supportive learning community, anywhere.





### Visit to Al Kenya and African Institute of Mathematics, Kigali, Rwanda

As part of our strategy to build industry/academic partnerships for high impact Al practice in Africa, the founder and lead mentor of Data Science Nigeria, Bayo Adekanmbi, was at AIMS Kigali (African Institute for Mathematical Science, Rwanda). He met with the leadership team led by Professor Sam Yala and Dr. Charles Kimpolo with their team to explore partnerships and sustained best practice sharing.

He also hosted a dinner and meeting with Nigerian students in the AIMS, AMMI and CMU postgraduate programmes.

He also had an opportunity to be a speaker at a special industry engagement session with the Al Kenya team where he shared best practices in building Al community.

### Data4Fi by insight2impact (i2i)

Data Science Nigeria was selected as a strategic local partner in the first edition of Data4Fi— a learning plus hackathon initiative aimed at driving more applications of Al in Financial Inclusion. It is organised by the South Africa-based insight2impactLab (Cenfri)

DataHack4FI is the biggest pan-African data-driven financial hackathon and sponsored by MasterCard and Microsoft.

Its aim is to bring finance, technology and data enthusiasts to use data and analytics to solve business problems and extend financial services to underserved communities. The best ideas win \$25,000,

Data Science Nigeria was also the cohost of its knowledge sharing session and stakeholder meet-up on Wednesday April 10<sup>th</sup> at the Oriental Hotel, Lagos. The discussion was on the future of digital payment in Nigeria.





# Al Bootcamp 2018

**Nigeria Biggest Learning Platform** 

The annual bootcamp ran as two distinct streams: Deep Learning Nigeria and Intercampus Machine Learning competition sponsored by Microsoft and Bluechip Technologies respectively.

The five-day all-expenses-paid bootcamp had more than 150 participants from all six geopolitical zones in Nigeria. These students were selected from over 11,000 applicants from 94 higher learning institutions after an intensive 90-day pre-

qualification course study. The study consisted of a post-study quiz, practical application via Kaggle competition on regressions/optimization, and recommendation engine for the beginners and intermediate participants respectively.

At the bootcamp, the students were immersed in intensive sessions of theoretical learning, use case applications, face-to-face teaching, virtual online classes, and a hands-on hackathon using the newly launched Zindi platform for real-time model evaluation. Distinguished data scientists from leading global institutions including Google's Al Lab, GitHub, MIIA and Bankable Frontiers Associate USA, facilitated the sessions. Leading executives from the Nigerian banking, telecommunications, energy and investment sectors shared their invaluable contextual insights with the students.

In order to ensure the maximum inclusivity, all participants who travelled to the bootcamp from outside Lagos received a travel grant, while 10 additional special provisions were made for females who did not meet the cut-off selection mark. The bootcamp included participants from all six geopolitical zones of Nigeria. Special opportunities were created for students from Nigerian Police College to attend the bootcamp also.

At the end of the hackathon for the Intercampus Machine Learning competition, each of the three winners received \$1,000 US dollars and an opportunity for a short-term internship at the Bluechip technology firm. Additionally, campus volunteers from the universities with the highest number of participants in the pre-qualification process were also rewarded for promoting and mobilizing participation in the competition. The University of Lagos, Ladoke Akintola University Ogbomoso, and the University of Ibadan campus volunteers received N150,000, N100,000 and N50,000 respectively.

In the Deep Learning stream sponsored by Microsoft, Olamide Oyediran of the National Agricultural Seeds Council of Nigeria came first with Stephen Oni of Federal University Akure and Vangelis Oden of OneFi Lagos Rwere in the second and third place respectively. The winners received their cash prices of USD \$1K, \$750 and \$500 for applying their learning to solve a real world problem during the 40-hour bootcamp hackathon. The bootcampers did an extensive review of Deep Learning concepts, Keras, Convolutional Neural Networks, Recommendation Systems, and Deep Natural Language Processing.

Some of the speakers at the bootcamp included Matt Grasser, Director, Inclusive Fintech, Bankable Frontiers Associate, USA; Prof. Moustapha Cisse, Google Al Lab; Professor Tom Dietterich, Distinguished Professor and Director, Oregon State University and the founder of BigML; Dr



Emmanuel Doro, Principal Data Scientist, Jet.com, USA; Dr Sulaimon Afolabi, Argility, South Africa; Ekow Duker, ex-Chief Analytics Officer of Barclays Africa/MD IxioAnalytics, South Africa; Dr Jacques Ludik, CEO of Cortex Logic, South Africa; Karim Beguir, the founder/CEO of Instadeep Al, London; Dr. Omoju Miller, Senior Data Scientist, GitHub, USA; Abiodun Modupe, PhD Researcher, University of the Witwatersrand, South Africa; Adewale Akinfaderin, Graduate Researcher, FSU & Senior Data Scientist, Lowe's Inc., USA; Osayi Igharo, Managing partner, Ripple VC, USA; Robert John, Chief Data Scientist at Enter5ive, Dr Nnanna Orieke, a Microsoft Nigeria Al expert, Lawrence Muthoga (Microsoft Africa), and many others.

Microsoft, BlueChip Technologies, Terragon Group, AXA Mansard, FCMB, InstaDeep AI, ProShare Nigeria, The Guardian, Guardian TV, OneFi, KPMG, Abelinis. Technext.ng and Zindi South Africa are the sponsors and partners of the bootcamp and summit











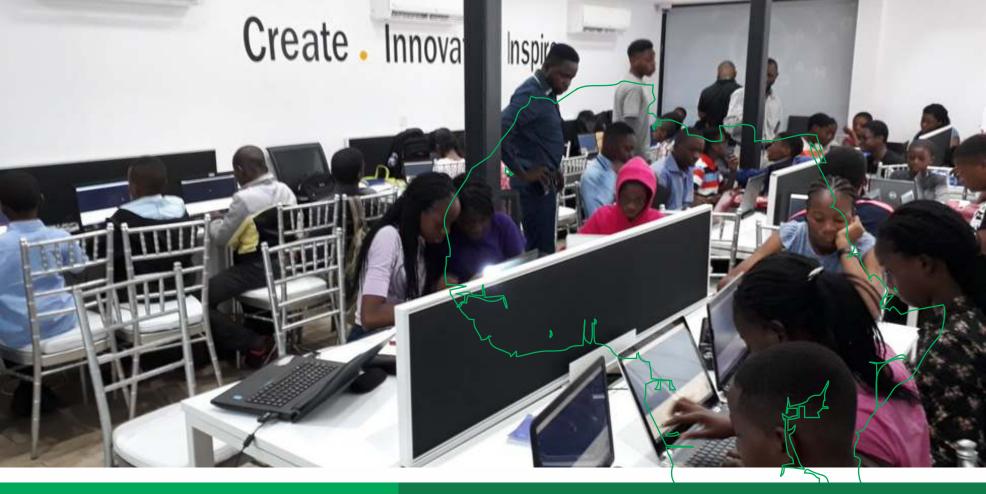












# BUILDING THE FUTURE

### Al Summer Schools for Elementary and High school students

Data Science Nigeria hosted a five day free Artificial Intelligence Summer School for children in JSS Grades 5-9 held between 30th July and 18th August 2018. The programme module is built using the Australian and China Junior School Artificial Intelligence module merged with Basic Machine Learning & Python programming introduction. The curriculum

is based on the great work of Prof Michael Milford, a Professor of Robotics in Australia who published the book, The Complete Guide to Artificial Intelligence for Kids. The students accepted in the programme had excellent Mathematics and

#### Science performance.

A specialised version of the programme was organised for Access Bank Nigeria customers as part of the bank strategy to add value to his clientele base. This was hosted at the African Fintech Foundry and the CEO of the bank, Mr Herbert Wigwe was personally in attendance top underscore the importance of building Al talents for Nigeria's development.

### Provision of Teachers for Data Science meet-ups and clubs

Data Science Nigeria community members have become the go-to destination for expert tutors for all the leading data science training and summer schools in Nigeria. It is a great pleasure for us to support other training interventions promoting the adoption of data science across the country. A recent example was the provision of tutors to the highly-related Wifi Combat Data science classes for teenagers in Nigerian secondary schools.

### Al+ engagement at the International School, Lagos

With the intent to democratize the learning of Al, Data Science Nigeria unveiled the Al+ Club for secondary school students at the International School Lagos.

Data Science Nigeria is committed to scaling learning opportunities to Nigerian elementary and high school studies with immediate focus on post-SSCE and grade 5-9 students. The event was facilitated by the US-based Dr Stephen Odaibo, the only Ophthalmologist in the world who is also a reputable full-stack AI engineer. He inspired the students on the multidisciplinary application of AI across all disciplines and the imperatives of building robust capacity at an early stage.

















## WORLD-CLASS LEARNING THROUGH MENTORSHIP

At Data Science Nigeria, we believe that Artificial Intelligence/Data Science learning can be accelerated through the guidance and expertise of a mentor. We are privileged to have a network of volunteer data science experts in the industry and academia globally, who gladly support the development of our students. We are very inspired by the awesome stories of growth shared by past beneficiaries and thus expanded our mentorship base across the world with broader expertise in academia, research and industry.

The new cycle kicked off with more offshore experts who participated online to show their support for the growth of local budding data scientists.

#### Masterclass with visiting experts-Samuel Edet, Femi Azeez and Jeremiah Fadugba

We continued to explore opportunities to host Nigerians studying in the diaspora who visit home to facilitate Al+ Masterclass. We hosted Samuel Edet, a joint doctoral student at IM in, Italy, and KU Leuven in Belgium as well as Femi Azeez from Carnegie Mellon University and Jerry Fadugba of African Master's in Machine Intelligence (AMMI) in Rwanda.

#### Dial-In Masterclass with global experts

Q-learning class wih Tyler Lu PhD: On 2nd March 2018, we had the honour of hosting the 2018 Best Paper co-winner, Tyler Lu of GoogleAl, at our Al+ Researchers Forum. This forum is a dial-in class for academic and industry researchers that focused on Reinforcement Learning Introductory Concepts and his paper on Q-learning, titled "Non-delusional Q-learning and value iteration."

## Image Classification with David Odaibo PhD:

Another edition of the Dial-In Al+Researchers' Forum was held with the winner of the USA Immigration Passenger Screening Algorithm Challenge, on Saturday, June 1, 2019 6-8pm Nigerian time. The speaker, David Odaibo, has won 4 Gold and 11 Silver medals in Kaggle competitions. He is currently ranked 65 out of 109,618-ranked Kagglers with the highest rank of 38th. He is in the Top 0.05% on Kaggle.

David is a PhD candidate studying Electrical and Computer Engineering at the University







of Alabama, USA. He is also the Co-Founder of Analytical-Al, Alabama, USA. He was the 3rd place winner in the USA Immigration Screening challenge and the 2nd Place Winner in the Ultrasound Nerve Segmentation challenge. He spoke about Image Classification Theory and Applications in the US Passenger Screening Algorithm Challenge.



## EXECUTIVE ENGAGEMENT AND INDUSTRY-READY CAPACITY BUILDING

## Datahacks 2018 with Access Bank & African Fintech Foundry (AFF)

This is an industry-focussed practical application of Machine learning theories through competitive access to an industry data. A hands-on immersion to solve real problems beyond Machine Learning theories and Kaggle competitions DataHack2018 was indeed a great knowledge immersion on Machine Learning in practice for solving business problem. It was a 3 day of sleepless nights and multiple data points.

The event was hosted and sponsored by Access Bank Nigeria and Africa Fintech Foundry as a platform to engage budding data scientists to apply their theoretical knowledge in solving real business problems that are data-related. We specially thank the Executive Director IT and Operations, Ade Bajomo,

AFF Head, Olusegun Adeniyi, and the entire team. It was indeed a big leap in Access Bank's commitment to Nigeria's AI ecosystem by providing a platform to solve real problems that went beyond Machine Learning theories and Kaggle competitions. We congratulate all 10 teams for their passion and commitment. Everyone was a winner based on the review by the Executive Directors from Access Bank and Microsoft. The event paraded brilliant insights, actionable Machine Learning models that can deployed at scale and a strong passion to excel.

We specially recognise the winning team;, Team INSPIRE made up of Rising Odegua, Oluwafemi Tairu, Temilola Onaneye, Alo Joel, Ademola Kunmi Olokun, and Frank Ohikhena

The team won cash prices.

#### Talent Deployment

Data Science Nigeria has become the talent discovery and deployment platform for top local and international organizations in Nigeria. For example, the US-based Retina-AI recruited students/freelancers from our ecosystem to work on an image classification project via virtual collaboration.

We have also kicked off data-scientists-on-demand and talent recruitment support programmes for Nigerians companies via our robust hands-on skills validation, project based interviews and post-recruitment on-boarding- a model that is far ahead of all the current local Practice in the traditional Human Resources recruitment model.

### $Partnering\,on\,industry\,use\,cases$

#### - Al for Insurance

Data Science Nigeria and Venia Group hosted a best practice learning session on how to profitably disrupt the insurance industry with the possibilities that Machine Learning offers. The session concluded that the insurance industry must transit from "detect and repair" to "predict and prevent". The















session discussed emerging global trends in insurance and Al with relevant use cases, as well as an opportunity to brainstorm disruptive but actionable ideas.

#### **Alfor Professionals**

The 1st Data Science Nigeria Al Professional Meet-Up was held at the Terragon Group, Victoria Island, Lagos on Friday 18th January. The meet-up featured a special knowledge session, a masterclass and business networking opportunities that brought together professionals to share insights, trends and developments. US-based Artificial Intelligence inventor Dr. Stephen Odaibo, was a keynote speaker and gave his professional insight on Transformational Innovation with Artificial Intelligence.

The meet-up is aimed at driving industry-leading capacity building for entry-level to middle-level management staff in data/business analysis, Al enthusiasts, data-passionate professionals and executives.

#### Al for Executives Masterclass

Our Artificial Intelligence Demystified for Executives masterclass aims at simplifying Artificial Intelligence concepts and terminologies to top business leaders in banks, insurance, Telecommunications, Oil and Gas, Manufacturing, Media, Retail etc. This is because we believe that Al adoption requires CEO-level ownership. Decision-makers must understand how data science/machine learning can drive business growth and provide ROI.

The one-day masterclass explores key concepts of Artificial Intelligence for executives, business leaders and strategic decision-makers and translated what AI hyper and buzzwords mean in the real world business context (revenue impact, cost reduction and efficiency levers).

The class was held on Tuesday 9 October 2018 at Eko Hotels & Suites, Lagos and was facilitated by world-class experts such as Ekow Duker, ex-Chief Analytics Officer, Barclays Africa/MD Ixio Analytics, South Africa; Karim Beguir of Instadeep Al, London; Dr. Jacques Ludik, Cortex Logix, South Africa; Emmanuel Doro PhD, Principal Data Scientist, Jet.com USA; and Bayo Adekanmbi of MTN, Nigeria.

Participants left the masterclass with sufficient knowledge to identify business challenges well suited for Al with defined analytical roadmaps that can be implemented to improve operational outcomes.















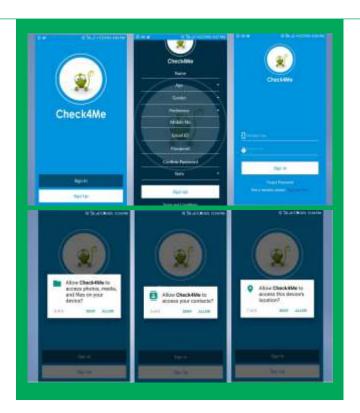




# AI FOR SOCIAL GOOD

Data Science Nigeria transited its knowledge intervention into a next level of research-based application with a focus on socially oriented projects that are aligned to the Sustainable Development Goals (SDG).

Some of the projects are explored below:



#### Check4Me:

As part of our strategy to deepen local content in Al practice, especially in Deep Learning, we released a data collection app, Check4Me, that can collect images, videos and sounds of various entities across the 774 local governments in Nigeria.

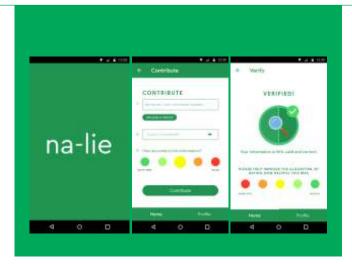
On request, the app will prompt the crowdsourced community members who have willingly signed on to be "checkers" to collect images and videos of interest for a predefined fee and within a stated period. These range from images of the sky at different times of the day, sounds of babies crying, videos of animals, pictures of diseased plants, images of roadside billboards, recording of a local radio programme, pictures of dressing style, food and buildings etc.

Check4Me was used for the 2018 Election data electioneering campaign.

#### NaLie:

As part of our strategy to deepen the use of Al practice, especially in Deep Learning, we designed a project that leverages crowdsourced data to address the menace of financial fraud initiated via fake bank alert SMS or job scam. The app-based solutions uses machine learning to learn from previous fraud messages to trigger users when they receive related fake messages such as bank alert and false job.

While it may be difficult to tame the scammers, it is very easy to predict the format and patterns of these fake job adverts and bank notification alerts, if curated into a learned algorithm, it can provide

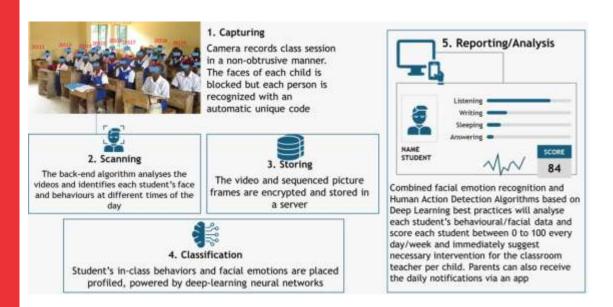


a validation system for future would be victims Importantly, these messages come as SMS, email or WhatsApp messages from disparate sources, they follow a predictable pattern, either in the language syntax, the sender ID, alphanumeric labelling etc. These patterns are easily understood via a machine learning algorithm as a predictable platform for all would be victim to verify

#### AgroAl:

This is a mini-lab within the Al Hub to explore the use of IOT/sensors for weather data collection and climatic insight generation for agriculture yield and air quality measures. The lab will also be using drone-collected images for agricultural yield optimization.

The hub focusses on the practical machine learning use cases with tools like AI Development toolkit, IoT weather station toolkit, weather forecast toolkit, Arduino development board, Rasperry Pi, drone technology etc.



#### **Al Class Monitor:**

With a teacher-to-pupil ratio of 1:80 in most Nigerian schools, the quality of learning has been declining with teachers unable to fulfil their roles in driving personalised learning and providing robust psychological support to their students.

This work explores how Machine Learning-powered cameras in a classroom can help teachers to recognize and assess their pupils' engagement levels and classroom behavioural patterns with the goal of intervening when students need motivation and assistance. Specifically, the artificial intelligence algorithm assesses the students' facial expressions, classroom activities and their demonstrated levels of interest. With a relatively low-cost camera that can quickly and precisely read pupils' facial expression and class behaviour, many learning risk indicators such as emotional stress, personal frustrations, fatigue, academic disconnection and learning dysfunction can be automatically identified, allowing the teacher to intervene appropriately as needed.

The use of real-time intelligence systems could enhance the quality of education in Nigerian schools, while also helping teachers to better identify and help each child's socio-emotional development.



# INCLUSION FOR WOMEN

#### Al Bootcamp special for women

In order to increase female inclusiveness in Al, Data Science Nigeria provided a 20% slot allocation for women in the Al Bootcamp irrespective of their position on the prequalification. We believe inclusion must be deliberate and focused to ensure all segments are practically involved.

#### Indaba X Support

To further drive the participation of women in AI in Nigeria, Data Science Nigeria provided accommodation and travel grants for women who attended the IndabaX Nigeria.

#### Sponsorship of Opeoluwa Iwashokun

Data Science Nigeria will be sponsoring the 1st runner up in poster presentation, Opeoluwa Iwashokun, at the IndabaX Nigeria to Deep Learning Indaba, Kenya. This advances the technology inclusion vision of Data Science Nigeria for women in Al.

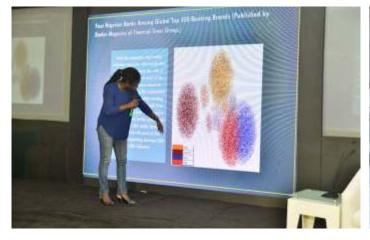




#### Pre Al Hackathon

Data Science Nigeria also get special recognition and book prizes to the female in the 2019 Pre-Al Bootcamp, Grace Omojola of Obafemi Awolowo University, Ile-Ife.. She received Al books worth 10,000 Naira. The practice competition received 1,923 submissions from 170 participants. The final leaderboard is available at <a href="https://www.kaggle.com/c/titanic201">https://www.kaggle.com/c/titanic201</a> 9/leaderboard

The selection process for the Kaggle competition will run <u>between 23</u> <u>September and 23 October</u>, where we will select the best 150 competitors who will attend the residential, all expense-paid learning Bootcamp, facilitated by world-class presenters. More information is available at <u>bit.ly/2W63z9G</u>







# **EXPANDING PARTNERSHIP**

#### Google Visits Data Science Nigeria

Data Science Nigeria hosted a Google team for a strategic team visit to better understand and appreciate the work done by Data Science Nigeria in the technology field to professionalize and democratize Al learning in Nigeria. Aniedi Udo-Obong and Diana Akrong led the team.

#### Bill and Melinda Gates Foundation Visit to Data Science Nigeria

Data Science Nigeria had the honour of hosting representatives from the Bill and Melinda Gates Foundation who showed their support for our commitment to advancing Al in Nigeria. The team was led by Dr. Uyi Stewart, Director of Bill and Melinda Gates Foundation, and is specifically responsible for applying innovative technologies such as machine learning and Al in order to optimize the use of data for decision-making, delivery effectiveness and leveraging the Foundation's data investments to create global public goods.



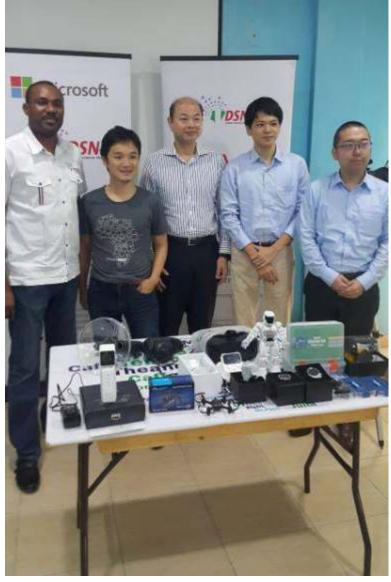




#### **University College London**

The University of London Computer Science team led by Dr. Delmiro Fernandez-Reyes. Dr Delmori is keen on how to further digitalise the Al Knowledge Box, in order to track usage and ensure full utilisation of the platform to truly drive inclusive learning.











# **AI+ COMMUNITY** CONCEPT

#### Al+ community -Strategic sectoral engagement for excellence. impact

and community impact is driving our newly unveiled Al+ catalyses community spirit, ethical values, quality and travel grants, local event travel grant, hands-on industry data

As move into 2019, our focus for inclusion, value orientation While anyone can attend any of Data Science Nigeria events, Al+ membership guarantees exclusive benefits like internship philosophy, which is built on accountable learning that recommendation, job placements, international conference

exposure for capacity building, leading platforms such as <u>arxiv.org</u> or application. This will hold during the mentorship, start-up support/funding presented at leading conferences annual AI for Executive session. These etc. Membership details available at (NeurlPS, ICML etc.) for a collective sessions are aimed at academics, posthttps://goo.al/4CRP9r

#### AI+ Researchers Forum

the standard in research excellence for and review the methodology. Papers for Al+ Club is a knowledge community of renowned and experienced researchers research. through regular review sessions and oneon-one mentoring.

the forum is to review the papers and run and motivated researchers. a scheduled 3-hour dial-in session with Al+ Researcher Forum is aimed at raising the author to discuss the theoretical basis **Al+ Club in Higher Institutions** 

The forum also has an annual 1-day Meet- departments who meet twice a month. The-Industry poster session to showcase On a monthly basis, the forum will select their latest research works for industry. The monthly meeting is based on Al+

knowledge sharing review. The focus of doctoral researchers, PhD/MSc students,

academic and industry researchers in consideration are selected based on students in higher institutions Machine Learning and Deep Learning. relevance to emerging market, (universities, polytechnics and colleges of The platform will provide an opportunity contribution to knowledge, emerging education) who are passionate about for budding researchers to learn from trends and breakthrough areas in Al learning and the application of Machine Learning in multidisciplinary contexts and has members from various

leading academic papers, published on partnership, support, endorsement and curriculum and to support the growth of the community through the use of our Al+ Knowledge Box.

> Each Al+ Club will have group mentors (local and international), who regularly dial in to mentor, engage and support the development of the students' Al community. The club will also mobilise participation to the annual Intercampus Machine Learning competition by organising special classes during the preparation session.

Each active member of the Al+ Club is also encouraged to be a mentor to a secondary school AI+ Club in order to teach Al using our video and free book series. Members of Al Club will be able to participate in the InterCampus Machine Learning competition and quality for the all-expenses paid 5-day Al Bootcamp. High performing members will be recommended for internships in leading partners firms.









## Al+ Club in Primary/Secondary Schools

This is a school-based knowledge community, in partnership with the ICT units of public and private schools in Nigeria that is aimed at introducing Grades 4-9 students to Introductory Python programming and Machine Learning concepts.

The top participating students will quality for our Artificial Intelligence Summer School that runs every August.

Each school group will be able to access our free book on Python and all video content.

Al+ mentor visits the school at least once a month to support students and work with the local ICT instructors or department.

Parents may adopt our mentors as private home teachers to accelerate student's growth in Python and Machine Learning







# **NEXT FRONTIERS**

## Strong focus on Artificial Intelligence or Social Good

The 2019 Al Bootcamp will continue to focus on capacity building in the areas of Artificial Intelligence for social good application. In this regard, we are excited to confirm that Eric Sodomka, PhD of Facebook Research in the USA will run a

parallel session on Mechanism in Design for Social Good while Kris Sankaran PhD, a postdoc at MILA (Montreal Institute for Learning Algorithms, University of Montreal, Canada) will run a session on Humanitarian Al. In addition, the GRID3 team will explore Geospatial data with focus on Nigerian use cases.

#### Data Scientist on Demand:

In order to scale impact, deepen experience and quality of the ecosystem, we have started taking projects from leading local and international companies. It is a good approach to get our community members to learn and earn while in school or as freelancers. For those interested, short CV can be shared with admin@datasciencenigeria.ai referring the following: GitHub/Kaggle/Zindi. Technical skills in details (e.g Anomaly Detection for Financial fraud, Image Classification for medical images), Tools used (e.g. Python, R, DataRobot, Knime, BigML, Azure, Tensorflow, Keras etc.), previously completed projects, Availability for projects (e.g. weekends, weekdays, holiday period).

In addition, we have also kicked off a programme to help leading local and international companies to recruit talents in Nigeria using our rigorous skill validation mechanism under the broad team of AlTalent deployment.

Industry Partnership with Stellenbosch University South Africa: Data Science Nigeria is one of the industry partners to the premier Masters in Artificial Intelligence by Stellenbosch University in Cape Town. The top students at the 2019 BlueChip Intercampus Machine Learning competition will receive a scholarship to Stellenbosch University South Africa for a Master of Science degree in Artificial Intelligence courtesy of our Platinum Sponsor, Bluechip







Technologies. Bluechip Technologies is a company that is totally committed to developing Al talent in Nigeria. The company supported the 2018 edition and provided internships to our community members.

#### **Expansion beyond Lagos:**

Our vision is to expand and scale outside of Lagos while still maintaining the DSN quality and standard. With our last Al Invasion in 30 cities, we have built relationships with established hubs across Nigeria with partners who are willing to replicate the Al Hub concept with us. We have proven that talent exists everywhere. However, we cannot expand without maintaining strategic focus and alignment. Anyone who will represent DSN Al+ learning community in any city must be tested and accredited, both in character and in intellectual depth. Therefore, we are





using the 2019 Al Bootcamp selection Kaggle/ attendance to identify possible Al+ city leads who will be able to facilitate classes and deliver at least 20 hours of training in 20 cities as part of our Phase 1. Each of these Al+ Learning centres will be run free of charge like Lagos and fully supported by Data Science Nigeria as centers of excellence with standard operating procedures that are monitored for quality and also integrated to access all the central opportunities and benefits of job placements/internships/industry projects.

We will also be employing NYSC Corp members (on a part time basis) from the 2019 Al Bootcamp who will travel around to supervise, teach and ensure standards are being adhered to. As part of our commitment to quality assurance, we will run special learning retreats for all the Al+ city champions/trainers on a regular basis.

## World-Class Masters /PhD partnerships in Al and ML in Nigeria:

Solid AI ecosystem will require knowledge alignment and partnerships with leading centres of excellence to run structured postgraduate programs. Our long-term plan is to develop similar Masters program where experts fly to Nigeria to run classes for AI related postgraduate degrees in partnership with leading global institutions similar to AMMI in Kigali and Stellenbosch AI in Cape Town.



# CONSOLIDATED STATEMENT OF ACCOUNT

## **Data Scientists Network Foundation**

**Statement of Income and Expenditure (July 2018 - June 2019)** 

Inflows	FY 2018/19 NGN	FY 2018/19 USD
Grants and Project Finances	73,958,284	204,305
Other Income		
Total Incoming resources	73,958,284	204,305
Expenditure		
Training Cost	1,199,310.00	3,313.01
Travelling Expenses	1,561,890.00	4,314.61
Publication and Infographic	645,000.00	1,781.77
IT Related Expenses	708,433.30	1,957.00
Design & External Consultancy	473,500.00	1,308.01
Facilities & Library	8,324,898.00	22,996.96
Research Solutions and Data Collection Apps	4,508,180.00	12,453.54
Adverts and Promotions	868,500.00	2,399.17
Event & Workshops	22,750,352.00	62,846.28
Financial Inclusion Lab Project	24,343,284.00	67,246.64
Educational Content Development	4,354,500.00	12,029.01
General and Admin. Expenses	2,856,638.58	7,891.27
Total Expenditure	72,594,485.88	200,537.25
Net Incoming resources	1,363,798.12	3,767.40
Opening Balance	570,898.98	1,577.07
2018/19 Project Funds (currently held)	1,363,798.12	3,767.40
Net Position	1,934,697.10	5,344.47



# DONORS AND PARTNERS

## **Donors and Partners**

	Naira	Dollar
Microsoft	10,000,000	27,624.31
Bluechip Technologies	5,000,000	13,812.15
Terragon Limited	3,500,000	9,668.51
Axa Mansard	2,000,000	5,524.86
First City Monument Bank	1,000,000	2,762.43
InstaDeep UK	1,815,000	5,013.81
Income from Training	1,300,000	3,591.16
Bill and Melinda Gates Foundation		
(Financial Inclusion Lab Project)	24,343,284	67,246.64
Mr Bayo and Mrs Toyin Adekanmbi	10,000,000	27,624.31
Xlytics Innovations Limited	15,000,000	41,436.46
_	73,958,284	204,305

## **Strategic Partners & In-Kind Donors**

Microsoft

Bluechip Technology

InstaDeep UK

**KPMG** Nigeria

Zindi Africa

Terragon Group

**AXA Mansard** 

Guardian News

Proshare Nigeria

TechNext

OneFi Paylater (now Carbon)

Access Bank Plc

First City Monument Bank

African Fintech Foundry

Octave Analytics

Lagos Business School

Insight-2-Impact Cape Town

Kazeem Tewogbade

Olumide Soyombo

Emeka Okoye

Leke Adekoya

Dele Arikawe

Yomi Akinyemi

Segun Adeniyi

Wale Olokodana

Olu Akanmu

Dr Raphael Yemitan,

Dr Taiwo Togun

Aniedi Udo-Obong

Kayode Iledipo

Bayo Aderibigbe

Eric Sodomka

Ade Sonubi

Dr Victor Odumuyiwa

Dr Olumuyiwa Asaolu

Mr lyinoluwa Aboyeji

Mr Joseph Agunbiade

Mr Kelvin Oyanna

Bukunmi Omidiran

Prof Ndubuisi Ekekwe

Tekedia

Matt Grasser

Dr Yinka David-West

Temitope Akin-Fadeyi

Olu Akanmu

Dele Adeyinka

Aderemi Atanda

Uwa Uzebu

Lawrence Muthoga

Ekow Duker

Karim Beguir

Dr. Jacques Ludik

Dr. Nick Bradshaw

Mr. Takashi Konno

Mr. Masa Sugano

Mr. Yasuhiro Hashimoto

Mr. Kei Kondo

**Abelinis** 

Keskese

Karyxma Creative

Adeyemi Shobowale

Olamide Oyediran

Ayodele Olabiyi Samuel

## **Strategic Partners & In-Kind Donors**

Ponmile Oloyede PhD

Microsoft, 4Afrika

Mr Gideon Adedokun

Deep Learning Indaba

Prof Kunle Olukotun

Prof Ekechi Nwoka

Dr Uyi Stewart

Prof Yoshua Bengio

Prof (Emeritus) Thomas Dietterich

Adia Sowho

Alexander Tsado

Ayodele Balogun

Elo Umeh

Basil Udotai

Chika Obi

Dr Yemi Kale

Olufemi Awoyemi

Yomi Adedeji Remi Atere

Dele Tejuoso

Toyosi Akerele-Ogunsiji

Yemi Osindero

Christine Nze

Add Bajomo

Adedeji Olowe

Orah Egwu

Dr Chika Victor-Banjo

Maria Rotiku

SeqHub Analytics

Tunji Elesho CcHub

Bosun Tijani CcHub

Dr Taiwo Togun

Tayo Bamiduro (MaxNG)

Tayo Olosunde

Dare and Moji Sowunmi

Itanna

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University of Lagos CITS

Prof Oyibo Wellington

Prof Sunday Adebisi

Softcom

Sope Olaosebikan

Civic Hub Abuja

SiriusLab

Oxygen Academy

Sanusi Ibrahim

Comfort Agboola

### **Event Partners**

Computer Lab5, Fed. Uni. of Tech Minna South South Innovation Hub. Benin

El-Khalil ICT Centre Kaduna

Inteliworx Technologies Kaduna

Agritech Hub, Entrepreneurship

Development Center, Makurdi, Benue

Manpower Development Institute, Dutse

FututeSphere BI Hub, Port Harcourt

Founders Hub, Ilorin

LEAD Resources and Nigeria Computer

Society, Ogun State chapter

Zinox lab, University of Uyo Permanent site,

Uyo

N-Hub Training Room, Jos

Ogbonna Bide Chijioke

Youthhub

Godwin Simeon Kper

Ebeh Elisha Chidera

Zainab Ishaq Musa

Okegbemi Lawrence

Oladele Segun Olabanji

Nwanyimba Jewel Uguru

ThankGod Izeuma Egbeshiobu,

Pascal Ibekwe

Atom Emmanuel Aondover

Raji Abdulgafar

Alo Joel

Michael Oghenekome Efemena

Jato Fanan Joseph

Aminu Bin Ibrahim

Sarah Adigwe

Lawal Adeola Zainab

Isiaka Israel Olamide

JIRAJI KELVIN TERSOO

Zainab Ishaq Musa

Sanni Oluwatosin

Jehu Oreri

Otenaike Adegboyega Babatunde

Asanloko Tejumola

Ahanor Nosa

Chima James Nwakigwe

llekura Idowu

James Sandy

Akorede Fodilu Olawale Justus Ilemobayo

Odemakinde Elisha

Youthhub

Sakinat Folorunsho

Mamah Michael Chidike

Ahmed Babajide Olanrewaju

Daniel Tarerefa

Olajuwon Owoseni

Ibrahim Enesi Umar

Dr. Barroon Ahmad

Chinonso Ani

Yusuf Ganiyu

Akande Oyebola

## **Knowledge Volunteers**

Blessing Oladeji

Femi Azeez

Tyler Lu PhD

David Odaibo

Samuel Edet

Jerry Fadugba

Dr. Stephen Odaibo

Emmanuel Eze

Adeyemi Odeneye

Ismail Wale Salami

Balogun Oloruntobi Emmanuel

### **Al Invasion Instructors**

Kelvin Oyanna

Emmanuel Adeiza Ozi-yusuf

Rising Odegua

Abimbola Olawale Victor

Onuoha Obinna

Grace Ufeoshi

Abass Olaiya

Chinonso Ani

Alo Joel

Koye Sodipo

Warrie Usenobong

Sowole Oladimeji Samuel

Obasa Temitope

George Godstrump

Sarah Adigwe

Joseph Oladokun

Raheem Nasirudeen

Emeka Boris Ama

Tijani Abdulazeez Titilope

Ezekiel Olugbami

Ismaila Hassan

Adesiji Blessing

Ahmed Olanrewaju

Aminu Abdulsalami

Ahmed Babajide Olanrewaju

## e-book Contributors

Professor Ndubusi Ekekwe

Dr. Stephen Odaibo MD

Professor Thomas G. Dietterich

Professor Yoshua Bengio

Professor Dr. Max Welling

Dr. Jacques Ludik

Adewale Akinfaderin PhD

Olu Akanmu

Dr. Victor Odumuyiwa

Celina Lee

Megan Yates

Emeka Okoye

Katheleen Siminyu

Olumide Olayinka

Vukosi Marivate PhD

Nyalleng Moorosi

Uzoma Dozie

Dr. Sulaimon Afolabi

Sakinat Folorunsho PhD

Timnit Gebru PhD

Kazeem Tewogbade

Ade Bajomo

Rediet Abebe

Moses and John Olafenwa

Robert John

Karim Beguir

Prosper Otemuyiwa

Darlington Ahiale Akogo

Taiwo Togun PhD

Dr. Johnson lyilade

Shingai Manjengwa

Emmanuel Doro PhD

## **Bootcamp Tutors**

Matt Grasser Karim Beguir Prof. Moustapha Cisse, **Emmanuel Doro** Dr Sulaimon Afolabi **Ekow Duker** Dr Jacques Ludik Karim Beguir Dr. Omoju Miller Abiodun Modupe Adewale Akinfaderin Osayi Igharo Robert John Dr Nnanna Orieke Lawrence Muthoga Prof Thomas Dietterich Dr Sakinat Folorunso FCMB Retail Banking team

## **Some of Our Mentors**

Mentor	Position	Country
Alistair Miles	Head of Epidemiological Informatics at the Centre for Genomics and Global Health	United Kingdom
Jeff Herman	Data Scientist	USA
Moyosoreoluwa Akala	Data Scientist	United Kingdom
Samuel Edet	Doctoral Researcher	Italy
Sharat Manikonda	Data Scientist	India
Stephen Olateru	Big Data Specialist	
Dr. Wale Akinfaderin		USA
Rishabh Upadhyay	Data Scientist	United Arab Emirates
Abiodun Shomoye	Team Lead	Nigeria
Alex Conway	Research Director	South Africa
Babatunde Olorisade		United Kingdom
Damilola Ojo		United Arab Emirates
David Adelani	PhD Student	Germany
Dr. Arinze Akutekwe,		United Arab Emirates
Dr. Johnson Iyilade		Canada
Dr. Kingsley Okoye	Data Architect	United Kingdom
Dr. Kolawole Adebayo	Research Fellow	Bologna
Dr. Phil Ogun	Senior Reserach Associate in Manufacturing Automation and Informatics	United Kingdom
Dr. Ransford Hyman		USA
Dr. Raphael Yemitan	Senior Manager Advanced and Predictive Analytics	Nigeria
Dr. Sulaimon Afolabi		South Africa
Dr. Taiwo Ajani	Program Coordinator, Computer Information Systems	USA

## **Bootcamp Tutors**

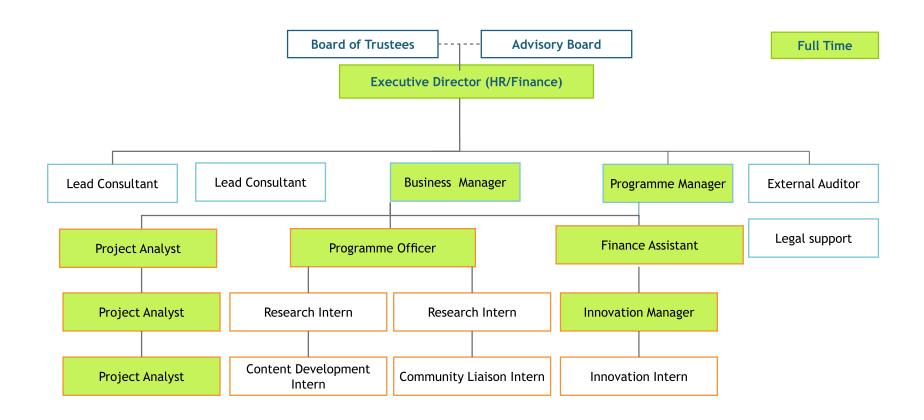
Dr. Taiwo Togun	Founder/CEO/Data Scientist	USA
Humphrey Obie		Australia
Jean François Aie	Manager, Advanced Analytics	Canada
Jeremiah Fadugba	Al Developer	
Koye Sodipo	Associate	Nigeria
Ladi Omole	Partner	USA
Abayomi Adelowotan	Lean Six Sigma and Data Analytics Advisor	Nigeria
Mohit Nalavadi	Data Scientist	Germany
Ngozi Dozie		Nigerai
Olalekan Aboubakar	Sr Data Scientist	USA
Olalekan Akinsande	Business Analyst	Nigeria
Omobolaji Kujembola	Data and Analytics (Analytics Innovation and Strategy Lead)	Nigeria
Prof. Diane Igoche	Assistant Professor	USA
Rahmon Ojukotola	Founder/CEO	Nigeria
Yigal Weinberger	Lead Data Scientist	Israel
Liemiso Mpota	Data science	South Africa
Eric Hamers	Data Scientist	
Yasser Hossam	Data Analytics Consultant	
James Allingham	Deep Learning Consultant	
Leif Sigerson	Data Scientist	
Corne Nagel		South Africa
Dr. Olufemi Oyenuga		Nigeria
Iyinoluwa Aboyeji		
Oluseun Onigbinde		
Dr. Samuel Durugo		United Kingdom
Abiodun Modupe		South Africa
Faith Mwema		Kenya
Aneshan Ramaloo		South Africa





## LEADERSHIP TEAM, STAFF AND COMMUNITY CHAMPIONS

## **DSN Organogram**



## **Advisory Board**



**Dr Jacques Ludik**Founder of MIIA (President) & CEO, Cortex Logic
Cape Town, South Africa



**Dr. Olayinka David-West**Director and Fellow, Information System,
Lagos Business School, Lagos, Nigeria.



Frederick Lester
Chief Data Strategist / Analytics Executive
Rutgers University Big Data Advisory Board Member, USA



**Dr. Stephen Odaibo**Founder & CEO

Retina AI, USA



**Prof. Sahalu Juaid**Director Institute of Computing and ICT/
Head of Department Computer Science,
Ahmadu Bello University, Zaria



**Dr. Victor Odumuyiwa**Acting Director Centre for Information Technology
University of Lagos, Lagos, Nigeria



**Ngozi Dozie** Director, OneFi Lagos, Nigeria



# **DISCLOSURE**

Data Science Nigeria is committed to full transparency about its activities and we welcome requests for information and feedback on our work. However, there may be circumstances in which we are unable to disclose information; for example, for reasons of security, confidentiality, or because of the sensitive nature of our internal documents. In the event that we are unable to disclose information, we will provide reasons for the non-disclosure.













# SUPPORT THE VISION

To learn more, or to find out how to support, visit www.datasciencenigeria.org

or send an email to <u>info@datasciencenigeria.org</u> or <u>toyin@datasciencenigeria.ai</u>

## Or Visit our office

Al Hub, 174b Murtala Muhammed Way, Yaba, Lagos, Nigeria.

## **Key Contact:**

Toyin Adekanmbi Executive Director (Finance and Admin) Data Science Nigeria Toyin@datasciencenigeria.ai +234 803 201 8462



### **PARTNER WITH US**

Data Science Nigeria (DSN) is continuously looking for strategic partnerships and engagement opportunities.

Here are some of the key reasons to consider partnering with us:

Our vision and core values are clearly focused on how to leverage Al/data science for socio-economic development in Nigeria and the wider African context.

DSN is a deeply rooted local partner in Nigeria and in Africa, with extensive relationship in academia, the private sector and government institutes.

DSN is the driving force for promoting data science and its convergence with AI in Nigeria and in Africa. DSN already has well-established and successful programmes that can be customised to undertake the proposed activities and accomplish the

organisation's objectives.







Breaking: DSN Bootcamp Trains 150
Nigerians on AI to Drive Financial
Inclusion ow.ly/6elW101iv9Z
#breaking #thisdaylive





A. K. Akindele @akindel... · 14/10/2018 
The best way a mentor can prepare another leader is to expose him or her to other great people -John C. 
Maxwel...Thanks you sir Dr. 
@bayoadekanmbi for given me the opportunity to have Dr. 
@afolaborn1st

as my mentor. I'm proud to be his mentee. Long live @DataScienceNIG





Jeremiah Nzere @jerryc... · 13/10/2018 
What's an #AlBootcamp without the amazing @omojumiller to blow your mind?

The quality of faculty put together by @DataScienceNIG is topnotch.





THISDAY LIVE @THISD... -15/10/2018 
Breaking: DSN Bootcamp Trains 150
Nigerians on AI to Drive Financial
Inclusion ow.ly/6elW101iv9Z #breaking
#thisdaylive





Ibrahim Olagoke @ibra... +13/10/2018 >> Dr. Sekinat Folorunso @SakinatTijani on a session at DSN BOOTCAMP 18 - ATTENDING INTERNATIONAL CONFERENCE

@abono2000 @AlSaturdaysIB @DataScienceNIG @AlSaturdayLagos @ao\_raji @Nasereliver



175



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Lawal Adeola @azlawal\_... 13/10/2018 Day 4: #AlBootcamp @DataScienceNIG Lecture from @Moustapha\_6C

O 12

When you need to go deep into Deep Learning, you need:

Lots of data
 GPUs

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- 3. Software(e.g. Tensorflow, Pytorch)
- 4. Backpropagation
- 5. Optimizers
- 6. Regularizers









Ibadan contingent arrived safely at Artificial Intelligence for financial inclusion summit @DataScienceNIG @AlSaturdayLagos @AlSaturdaysIB @MLGroupNigeria





10/10/2018, 11:31 AM from Victoria Island, Nigeria



Here we are Data Science Nigeria Boot camp18 #Day 5 @DataScienceNIG @AlSaturdaysIB @abono2000 @FoLR @Nasereliver



14/10/2018, 10:05 AM



Ifeoluwa Oladeji @ife\_d... -14/10/2018 
A big thank you to @DataScienceNIG @bayoadekanmbi for the awesome sessions we had during the #AlBootcamp.

We the UI term are going back to the drawing board to make things happen using AI.

@akindelekamar @abono2000 @akindelekamar @ao\_raji @cheiHumbleself @gafartweets @lbbejay





Replying to @bayoadekanmbi @tdietterich and 17 others

Thanks @bayoadekanmbi for organizing these wonderfully successful AI events in Nigeria! It was a pleasure & honor to have participated in all 3 events. Thanks for your inspirational leadership to grow @DataScienceNIG Looking forward to collaborate further @MIIAfrica @CortexLogic

17/10/2018, 1:59 PM from Somerset West, South...

6 Retweets 16 Likes



Ifeoluwa Oladeji @ife\_d... ·14/10/2018 
A big thank you to @DataScienceNIG 
@bayoadekanmbi for the awesome 
sessions we had during the 
#AlBootcamp.

We the UI term are going back to the drawing board to make things happen using AI.

@akindelekamar @abono2000 @akindelekamar @ao\_raji @cheiHumbleself @gafartweets @lbbejay





Day 4 of the #AlBootcamp

Its been a great time with;

- 11 international experts (across Africa and beyond)
- 14 indigenous industry leaders

It was so rich, thank you

@DataScienceNIG for this big
exposure. To the visionaire

@bayoadekanmbi , thank you very
much Sir.





ta Vanessa Retweeted

ZIND

Zindi @ZindiAfrica · 14/10/2018 Great to meet Stephen Gabriel Alexander in Lagos last week. He's the man who coined the term "Zindian" to describe a member of the Zindi data science community. @DataScienceNIG #artificialintelligence #datascience





Replying to @jeremyphoward @RichmanRonald and @fastdotal

Was just in Lagos last week speaking (& giving h/t's to fast ai)

@DataScienceNIG's annual summit + bootcamp – can confirm that if anything "big" is an understatement!

These folks are absolutely poised to lead a significant charge into practical and impactful DL applications 

15/10/2018, 5:46 AM

9 Retweets 33 Likes



Winning together at #dsn2018 #dsn2018bootcamp. @ Peninsula Hotel instagram.com/p/Bo8juQlnY0Y/



A couple of weeks ago, I participated in a @kaggle competition based on Deep Learning. After building a model and putting in work to refine and optimize it, I qualified to attend the bootcamp organized by @DataScienceNIG and @bayoadekanmbi for 5 days in Lagos.

14/10/2018, 5:00 PM from Lagos, Nigeria



Adigwe Sarah @Prinx\_s... · 14/10/2018 ~ I appreciate time and resources invested in us to make us better. Your leadership is building our future with creativity and vision.

Thank you for helping me find my path in life.

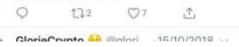
We will keep moving to attain greater beights

@bayoadekanmbi @DataScienceNIG





Ladipo eniola mary @e... · 15/10/2018 ~ @DataScienceNIG made my week fulfilling. Having top notch guys in the field coming to impact the younger generation in AI is amazing. Thank you to our amazing speakers @kbeguir @jacquesludik #AIBootcamp @MicrosoftAfrica and others. A better Africa, a better World.





Earlier this year, I registered to be a part of @DataScienceNIG and hone my skills on my way to being a world class Data Scientist. I got a 90-day study plan and I got right to working through the material and resources in it.

14/10/2018, 4:55 PM from Lagos, Nigeria



I wouldn't have believed that I would meet and get to learn from these experts in the field of #AI at the just concluded 5 days #AIBootcamp

Thank you @DataScienceNIG @bayoadekanmbi and all sponsors. #grateful





It was knowledge packed.

#AlBootcamp: Never stop learning...

Such a great initiative from Dr.

@bayoadekanmbi.@DataScienceNIG



Ifeoluwa Oladeji @ife\_d... · 14/10/2018 
A big thank you to @DataScienceNIG @bayoadekanmbi for the awesome sessions we had during the #AlBootcamp.

We the UI term are going back to the drawing board to make things happen using AI.

@akindelekamar @abono2000 @akindelekamar @ao\_raji @cheiHumbleself @gafartweets @lbbejay





@DataScienceNIG Thanks for the amazing souvenir and for recognizing @LautechDataSci and for counting worthy of this





14/10/2018, 2:38 PM



After dinner @DataScienceNIG thanks for the amazing meals served...

@azlawal\_lawal @obasasamuel @iGeorge\_i @Opetunde\_ @danielajisafe





Replying to @tdietterich @bayoadekanmbi and 11 others

We really enjoyed your work on Anomaly detection. Thank you so much for sharing!

16/10/2018, 6:49 PM





Replying to @LautechDataSci and @DataScienceNIG

Unilag won #150,000 for being the school with the most participant at kaggle competition leading to bootcamp....LAUTECH won #100,000 for being the second



14/10/2018, 10:59 AM

All i can say is God bless

@DataScienceNIG. The support, they so much believe in us and equally invested in us. For me this is pivotal to making a major career decision. Thank you sir @bayoadekanmbi.

@LautechDataSci Loves you



Emeka NNORUKA @Nn... · 14/10/2018 ~ It was boom @DataScienceNIG 5-day residential bootcamp (2018). To all who helped to build & sharpen the values in us, we thank you @bayoadekanmbi @jacquesludik @Azure @tdietterich @GoogleAl @WaleAkinfaderin @TerragonGroup @afolaborn1st @omojumiller @BluechipTechNG @ZindiAfrica





LAUTECH won a cash prize of #100,000 for being the school with the most participation at the kaggle competition leading to the bootcamp

@DataScienceNIG #AlBootcamp

13/10/2018, 8:11 PM

15 Retweets 57 Likes



Ubah Chuck Obinna @... -16/10/2018 ∨ From us at Unilag, we want to thank @DataScienceNIG team and @bayoadekanmbi for this amazing event and this token as well.

They have given us much more than money could ever buy I can tell you that for certain.

I can assure you that next year would even be greater!



Adegoke Toluwani Bolu · 16/10/2018 Seriously, it was an awesome time at dsn 2018 plus ladokites rocked d place....we were d second most participating school and we produced d best overall female in d inter campus ml competition...

- @DataScienceNIG
- @LautechDataSci
- @temiloluwaafape
- @danielajisafe
- @\_emmapraise





Lawal Adeola @azlawal .... · 14/10/2018 v Thanks to @DataScienceNIG for this great opportunity and for believing in us to be great, @bayoadekanmbi for the love you showed and knowledge you impacted on us, we say thank you. @LautechDataSci success shall be our watchword





I owe it to God and to everyone who committed their resources into funding my travel and accommodation. I rep #DatascienceNigeria anytime.





### #DSNAlSummit

Thanks a lot Data Science Nigeria for this great opportunity.

Thanks a lot Sir Bayo and everyone who made this program a reality. I am really glad to be part of this program.



DataScienceNigeria @... -10/10/2018 v Members of the @NigeriaPolice were not left out at the AI for financial Inclusion summit by Data Science Nigeria. This is very remarkable as every sector that drives Nigeria's social & economic good must be well included in the Al narrative, #DSNAISummit @NigeriapolicePR





#DSNG2018

Beside the Intense world class learning sections, I met the best of the best people.

I found cool friends! These guys are the best. Looking forward to building the Nigeria #Al ecosystem together. #DSNAlSummit #DataScience







Replying to @Nnorukaemeka @bayoadekanmbi and 10 others

Thank you for the invitation. It was an honor to speak to such a great group of people. Best wishes to everyone!

14/10/2018, 7:07 PM

4 Retweets 14 Likes



@kbeguir, CEO @instadeepai gave an amazing keynote at @DataScienceNIG bootcamp.

Now I see #Al Africa in new light and the role I can play to get us there "Indeed it is an advantage being African in the field"

#datasciencenigeria #dsnbootcamp2018



TheLeadingPost @thele... · 16/10/2018 ~ Microsoft drives financial inclusion with Al at Data Science Nigeria BootCamp theleadingpost.com/2018/10/16/mic...



17

PositiveNaija @PositiveNaija\_1 3d Olajide Folarin, Sadiq Aderinto & Stanley Dukor Win Data Science Nigeria 2018

Inter-Campus Machine Learning Competition



Olajide Folarin, Sadiq Aderinto & Stanley Duko... positivenaija.com



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Thanks so much @DataScienceNIG for Building the Future of Nigeria Data Science community. Not At the #AlBootcamp but am really enjoining you guys. @ao\_raji @abono2000 @lbbejay @akindelekamar.

#AI #ML.

14/10/2018, 11:07 AM

3 Retweets 13 Likes









RAJI ABDULHAMEED - 14/10/2018

Preparation for Data Science Nigeria
Boot camp 2019 has started ... We will be here with problems we've solved with Data Science. Insha Allah. @abono2000 @tejuafonja @DataScienceNIG @lbbejay @ife\_dave01 @SakinatTijani @kbeguir @MIIAfrica @CortexLogic @jacquesludik

#### Raheem nasirudeen @Nasereliver

Thanks so much @DataScienceNIG for Building the Future of Nigeria Data Science community. Not At the #AlBootcamp but am really enjoining you guys. @ao\_raji @abono2000 @l...

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@mr\_z\_ro

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Replying to @AbelOfinni @MMIALag and @DataScienceNIG

Thanks @AbelOfinni It was awesome being in Nigeria and experencing the hunger and passion to learn more about AI, Data Science, etc. and how it can be used in impactful ways. Thanks also for the great hospitality & support! @MIIAfrica @CortexLogic

@bayoadekanmbi @DataScienceNIG 15/10/2018, 3:14 PM from Somerset West, South...

2 Retweets 7 Likes



Raheem nasirudeen @... ·14/10/2018 ~
Thanks so much @DataScienceNIG for
Building the Future of Nigeria Data
Science community. Not At the
#AIBootcamp but am really enjoining
you guys. @ao\_raji @abono2000
@Ibbejay @akindelekamar .
#AI
#ML.









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Don papuchi @harlobzy · 2d

OAU and UNILAG Students Win Data

Science Nigeria BlueChip Inter-Campus

Machine Learning Competition



OAU and UNILAG Students Win Data Scien... proshareng.com



17





Brand Spur Nigeria @brandspur... - 2d OAU & UNILAG Students Win Data Science Nigeria BlueChip Inter-Campus Machine Learning Competition brandspurng.com/oau-unilag-stu...





Idris Munir™(MSc) @idrismunir

## @DataScienceNIG The

"demystification" of Convolution Neural Network continues by Dr Emmanuel Doro. We aren't just using the models, we learning the fundamentals. #AlBootcamp #DSNAlSummit







Temmie.py @Temmykeyz - 03/10/2018 
Thanks for this opportunity.

@BluechipTechNG @DataScienceNIG

@MicrosoftAfrica #DeepLearningNigeria
#Albootcamp

#### DataScienceNigeria @DataScienc...

Congratulations to the finalist of the 2018 @BluechipTechNG Intercampus ML bootcamp. Full candidate list goo.gl/Qm9ctS

There is transport support for students traveling from outside Lagos.

For details & Code of conduct & acceptance form, click goo.gl/XLKZR7





Ogunyale Richard Kehinde @\_Kennyrich

It's been a wonderful session with Dr.
Sulaimon Afolabi @afolaborn1st taking
us through the fundamentals of
Regression and Classification
problem, making the classes so
interactive. This is machine learning
demystified. @DataScienceNIG
#AlBootcamp #ML

11/10/2018, 3:43 PM

5 Retweets 12 Likes



Thanks to Data Science Nigeria for this wonderful opportunity to participate in this learning journey. Starting was a bit hard but we made it here and definitely we will keep moving to attain greater heights.

@DataScienceNIG #AlBootcamp #DeepLearningNigeria



10/10/2018, 6:38 PM

Stephane Judith @jhay\_steph

Congratulations to @ZindiAfrica at there official launching in Nigeria on the 2nd day of the @DataScienceNIG #AlBootcamp #DeepLearningNigeria. We are proud to have an African product for Africans.

11/10/2018, 12:56 PM

4 Retweets 13 Likes



@robert\_thas, Machine Learning GDE being a great help at explaining important baseline concepts at @DataScienceNIG's #AlBootcamp 11/10/2018, 7:02 PM

1 Retweet 4 Likes



Robert John, Chief Data Science Officer, Enter5ive and the only Google developer in sub-Saharan Africa demystifying Recommender Systems.

## @DataScienceNIG #AlBootcamp



12/10/2018, 4:50 PM



The @DataScienceNIG #AlBootcamp has further exposed me to the nitty gritty of deep learning. Thanks so much for the opportunity.



13/10/2018, 8:07 PM



Lawal Adeola @azlawal\_... · 13/10/2018 V Day 4: #AlBootcamp @DataScienceNIG Lecture from @Moustapha\_6C

When you need to go deep into Deep Learning, you need:

- 1. Lots of data 2.GPUs
- Software(e.g. Tensorflow, Pytorch)
- Backpropagation

t17

- 5. Optimizers
- 6. Regularizers



Lawal Adeola @azlawal\_... - 13/10/2018 ~ Looking forward to writing a paper soon, thanks @SakinatTijani for the awesome lecture #AlBootcamp @DataScienceNIG





Microsoft Azure Framework Session. #AlBootcamp @DataScienceNIG @CortexLogic @MIIAfrica @kbequir @tejuafonja @jacquesludik @mr\_z\_ro @AlSaturdaysIB @SakinatTijani



13/10/2018, 9:22 PM



It's been really inspiring and educating to have @Moustapha\_6C , head of @GoogleAl Accra teach on deep learning at @DataScienceNIG #AlBootcamp. Once again, the importance of understanding the fundamental mathematical principles gets stressed.

13/10/2018, 9:53 AM

8 Retweets 16 Likes



@DataScienceNIG I'm so grateful for your recognition of my little work. So happy I made it into the boot camp. Promise to keep flying the flag of @DataScienceNIG everywhere I go. Thank you so much!

#AlBootcamp #InterCampusMLCompetition #DeepLearningNigeria

13/10/2018, 7:35 PM

4 Retweets 16 Likes



Yomi Akinyemi @YomiA... - 13/10/2018 
Glad to partner with @bayoadekanmbi and @DataScienceNIG @olu\_olayinka 
@BisiLamikanra

DataScienceNigeria @DataScienc...

@YomiAkinyemi, Associate Partner & Lead Data & Analytics, @KPMG\_NG currently speaking on: What a consulting company looks for in a young Analyst & internship opportunities. @KPMG\_NG is a proud sponsor of Data Science Nigeria's 2018

#AlBootcamp





GlorieCrypto @ @glori... -15/10/2018 
Nice experience at the Lagos oriental hotel though that was my first time in Victoria Island @ @ @ mot knowing big thing will still happen at the Pennisulla Hotel Lekki. It was a great Impact so far.Thanks sir @bayoadekanmbi @DataScienceNIG





Nwaobasi Anthony @n... · 15/10/2018 I wouldn't have believed that I would meet and get to learn from these experts in the field of #AI at the just concluded 5 days #AIBootcamp.

Thank you @DataScienceNIG @bayoadekanmbi and all sponsors.

#### #grateful





obasa samuel @obasas... · 15/10/2018 ∨
Thanks for believing in us and giving us
the opportunity to learn so as to provide
grand solution and also to give out to our
community. @DataScienceNIG
@LautechDataSci @bayoadekanmbi
@danielajisafe #AlBootcamp
#DataScience #AlSubmit
#DSNbootcamp



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RAJI ABDULHAMEED · 14/10/2018

#AlBootcamp Data Science Nigeria
Deep learning Bootcamp ends today.
University of Ibadan people just got back
to Ibadan around 7pm. Thanks for the
actionable insights and knowledge
@DataScienceNIG @bayoadekammbi.
@tejuafonja @mr\_z\_ro @jacquesludik
@SakinatTijani @WaleAkinfaderin



Ayoola Afo @AyoolaPeak · 15/10/2018 
It was an awesome time at the #AIBootcamp. We had great lectures from amazing professionals in the field. 
The most exciting were the practical sessions. I interacted with a lot of talented people. Thanks to @DataScienceNIG @bayoadekanmbi & our superb facilitators.





Ifeoluwa Oladeji @ife\_d... · 14/10/2018 
A big thank you to @DataScienceNIG
@bayoadekanmbi for the awesome
sessions we had during the
#AlBootcamp.

We the UI term are going back to the drawing board to make things happen using AI.

@akindelekamar @abono2000 @akindelekamar @ao\_raji @cheiHumbleself @gafartweets @lbbejay





Stephen Odaibo, MD, MS(Math), MS(Comp. Sci.) - 1st CEO & Founder RETMA-A | Faculty MD Anderson | Retine Specialist | Healthcare Al expert | Meth/Comp. Sci. | Al-Engineer

Many Congratulations to Data Science Nigeria Founder, Dr. Bayo (Olubayo) Adekanmbi, for winning the 2019 Maathai Impact Award from the DeepLearning Indaba.

I'm so thrilled. And mind remains blown about how one person can galvanize so much #AI transformation on a continental level so quickly.

"The Maathai Impact Award encourages and recognises work by African innovators that shows impactful application of machine learning and artificial intelligence"

#ML #DeepIndaba #NeurIPS #BlackinAl

## Maathai Impact Award Winner 2019



#### Olubayo Adekanmbi

Founder of <u>Data Science Nigeria</u>, an initiative training Nigerian data scientists, and strengthening the African machine learning and Al ecosystem more broadly.



#### Olanrewaju @simply\_lanre - 3/9/19

One of my picks of the summit was Dr. @bayoadekenmbi of @DataScienceNIG's closing remark of the panel session about the four 'S' of successful innovators. Innovators are:

- Socializers
- Scientists
- Strategists
- Storytellers



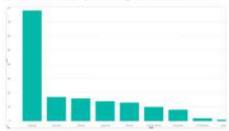
#forLoopLagosSummit





#### Ahmed Olanrewaju @abono2000-4/3/19

We no deh carry last. This is really a clear manifestation of working towards achieving @OataScienceNt3 objectives. The Gold perticipants at the #DateHack4FI Season 3 @Microsoft Professional in Data Science, Thank you @bayoodekanmbi as you take Nigeria to the promised land.





Victor Ekwealor Jnr. @victor\_ekwealor -2/22/19
Today on @Techpointdotng, I document the work
@bayoadekanmbi and the @DataScienceNiG team are
doing to democratise Al Knowledge in Africa.

#### Techpoint Africa O @Techpointdotng

This African nonprofit may have cracked the code for effectively bringing world-class Al knowledge to Africans techpoint.africa/2019/02/22/dat...



#### Data Science Ife @datascienceife - 8/10/19

#Dataweek2019 - Day 6 was great and interesting to have instructors question their students to knowing what they know and it was pretty awesome having great responses from them. Thanks to @DataScienceNiG for making this a success.

#DataScience

#ML

#AI

#Pytho





The book 'Al simplified' by @bayoadekanmbi was one I really enjoyed your book, and it was one of the texts that inspired this article I wrote on how Al could address the shortage of doctors in Africa

How Artificial Intelligence Could Solve The Critical Shortage of Doctors in Af... acefied.com



#### TenX 4-16-74 @ngozidozie - 5/12/19

24 months ago DataScience and Al were strange concepts to most, even amongst those who were following technology. It is hard to overestimate the impact of what <a href="mailto:sbaycadekarimbi">sbaycadekarimbi</a> has done in a short space of time but in a few years people will understand.

#### DataScienceNigeria @DataScienceNIG

It has been an awesome session at the 1st @IndabaXNigeria

Inspiring classes & research best practices!

Over 300 participants igniting their passion for Artificial Intelligence & picking new skills in Reinforcement Learning, Deep Learning & NLP.

We are excited to be a part!



#### Karim Beguir @kbeguir-2/21/19

Love the vision, creativity and flawless execution. Well done to @bayoodekanmbi and all the DataScienceNigeria team! #ML

#### DataScienceNigeria @DataScienceNiG

Today,we unveil Al+ KnowledgeBox, as we raise the bar in our guest build 1m Al community in 10 years.

The box contains over 10,000 publicly available &FREE learning videos from top AI schools & conferences. Poor internet, financial constraint & electricity wonf limit our growth

Show this thread





#### Ogunbajo Adeyinka @OgunbajoAdeyin3 -8/8/19

Spot me <a> I'm 100% Data scientist thanks to</a> <a> DataScienceNIG @bayoadekanmbi is there anything like that?... The core team AI+FUNAAB, Well done guys .lets do this again.</a>





Ogunbajo Adeyinka @OgunbajoAdeyin3 -8/8/19
@DataScienceNIQ Let's keep doing this .@bayoadekanmbi
Thanks a lot for this sir. We are really happy...learning
Artificial in intelligence has been fun all the way.



#### Jade Abbott @alienelf - 5/11/19

There are few who have transformed ML communities across Africa as much as @bayoodekanmbi ... Thank you for all you have done and all you continue to do.

11

@DeepIndaba, your influence is exponential. Everyone, let's keep going

#AfricanML #Masakhane 3

#### DataScienceNigeria @DataScienceNiG

Closing Remark @IndabaXNigeria by Founder, Data Science Nigeria, @bayoadekanmbi:

- (1) Build solid research skill
- (2) Read papers on arxiv.org
- (3) Be abreast of emerging themes & trends
- (4) Practice on @Kaggle
- (5) Solve real problem (AI+domain)
- (6) Make a difference









Ogunbajo Adeyinka @OgunbajoAdeyin3 -8/8/19
@DataScienceNIG Let's keep doing this ,@beyoodekanmbl
Thanks a lot for this sir. We are really happy...learning
Artificial in intelligence has been fun all the way.





#### Grace Ufeoshi @Gracefulibk - 10/15/18

Wow! What an awesome learning experience GDataScienceNIG. Thank you to the amazing organizations and instructors that made it happen. It's indeed a lifelong investment you have made in our lives, we hope to give back by transforming the face of Africa with Al! @Dayoadekanntb!



#### AJADI, Paul @ajadi473 - 10/14/18

All i can say is God bless @DataScienceNIG. The support, they so much believe in us and equally invested in us. For me this is pivotal to making a major career decision. Thank you sir @bayoadekanmbi. @LautechDataSci Loves you



'Teri @TeriEyenike-3/8/19

Thanks @baycadekanmbi for the 4S 🔥



4S to be a solution-oriented AI expert by @bayoadekanmbi @forloopAfrica Summit 1)Socialiser -you must connect & empathize to solve

2)Scientist-you must learn to relearn &unlearn 3)Strategist -have depth to connect the dots 4)Storyteller-passionate narrative that inspires





#### Michael Mamah @Michael\_Chidike -4/20/19

Some of faces at the recently concluded AI+ Invasion Rivers @RSUST #PortHarcourt, We build on the impact of this nationwide program, Thanks @DutaScienceNIG Great job @alotheMLguy @StephenQladels





#### Kenny @Kanny4yours-6/11/19

Replying to @EmekaOkoye @DataScienceNIG and @baycadekanmbi

1/Thanks & proud of the great work you are also doing. Dr Bayo is a phenomenon, I have observed the amazing success of DSN. I got my first job through the programme. It's not your typical run-of-the-mill.DSN is recognized even by Yoshua Bengio, one of the world's Top 3 Al experts



Bunmi Eyiaro @toriasbelle - 5/21/19

Wow this is fantastic. Thanks @DataScienceNIG for putting this together



#### Ogechi Esther @essymstar - 3/6/19

You are such a real and well experienced data sciencist.

Listening to your presentation @bigdata @ Lagos @Nigeria
@bayoadekanmbi was worth a great one! Thank you very
much for the insights.



#### ARA @rukayah\_adejumo 8/7/19

I use to think programming is made for gurus and computer science students until I joined #DataScienceife community. Thanks @DataScienceNIO @Bayoadekanmi for this wonderful opportunity and @Elishatofunmi and @Ayoolafeiix for the lectures. #Dataweek 2019 #python #AISaturdayIFE



#### Club40Digital @Club40Digital - 6/15/19 Honourable Mentions:

Special Thanks to Dr Bayo Adekanmbi @bayoadekanmbi and to The Data Science Nigeria Community @DataScienceNIG.

Thank you for all that you do for the Al community in Nigeria.



## Stephen Odaibo, MD, MS(Math), MS(Comp.... Author Imon --CEO & Founder RETINA-A1 | Faculty MD Anderson | Retina Sc...

Well said. There's no one more deserving of Africa's topmost Technology Leadership Prize than Dr Bayo (Olubayo) Adekanmbi. It's a great honor to work alongside him and everyone at Data Science Nigeria



#### Replying to @EmekaOkoye @DataScienceNIG and @OlufemiOlutade.

I participated in one of their classes concluded few weeks ago. It's an exciting and educating sessions.

Thanks @DataScienceNIG

8/23/19, 11:05



#### Tijani Abdulazeez @Tijazz94 4/23/19

At Knowledge Invasion Sokoto, Day 1!
Kudos to you guys dalgaidawee @mh\_barkeji @am\_safyan
@mohaye89 @yusgany for making it to the first ever Al
knowledge meet-up in Sokoto.

This was a really an awesome experience.

Thanks @DataScienceNIG for bringing this to Sokoto.
#Sokoto







So excited to have participated in the Introduction to Machine Learning Cohort organized by Data Science Nigeria (DSN). It's an impactful 8 weeks of learning new skills like Regression Analysis, Machine Learning (Mi.) Algorithms, Machine Learning, Regression Models, Data Analysis, Data Visualization and Python. The teaching resources were phenomenal and it was nice learning with other great minds of the cohort.

Sincere appreciation to our esteemed pacesetter Bayo (Olubayo) Adekanmbi for the vision to nurture and enhance Nigerians with the 21stcentury-electricity (Al), also to our knowledgable tutors (Olawumi Olasunkanmi and Daniel Ajisafe) and the DSN team.

Can't wait to apply what I have learnt to my career.

For more info, you can check: https://lnkd.in/gX9yCe5

#nigeria #artificialintelligence #machinelearning #datascience

"

CONGRATULATIONS TO OLUBAYO ADEKANMBI FOR WINNING THE 2019 MATTHAI IMPACT AWARD FOR AFRICA ARTIFICIAL INTELLIGENCE

"

## Maathai Impact Award Winner 2019



## Olubayo Adekanmbi

Founder of <u>Data Science Nigeria</u>, an initiative training Nigerian data scientists, and strengthening the African machine learning and AI ecosystem more broadly.





Osayi Igharo @Osayilgharo 1h
Massive congrats to the winners of the awards, including my friend and partner in action, @bayoadekanmbi! Especially proud of the African AI community coming together to propel the continent to the forefront of innovation.



Olabiyisam @s\_olabiyi - 17h

Congratulation Boss

He once told me "If I have seen further it is only because I stand on the shoulders of giants"

Congratulations Bayo Adekanmbi, Thanks for being an inspiration to us all



#### Today

Congratulations sir on the Mathai Impact award. This is just a testament for how you've been leading and impacting the African Data science & Al Space.



Nyalleng @nunuska-17h
Congratulation @bayoadekanmbi . Well deserved!



Dr. Stephen Odaibo @SOdaibo - 14h
Huge congrats to @bayoadekanmbi
founder of @DataScienceNIG on the
2019 Maathai Impact Award. I'm so
thrilled. And mind remains blown at how
one person can galvanize so much #AI
transformation on a continental level so
quickly. @black\_in\_ai @DeepIndaba



Ofinni Oluwaseun Abel @Abel... -17h ~ #Al-Excellent!

Congratulations! to @bayoadekanmbi for this well-deserved Award.

Meet a man who gives wings for others to fly. A Mentor who has raised millions silently.

Delighted to have you on 4 cardinal compass points of life.

With him and @DataScienceNIG , #Nigeria is #



Rising Odegua @risin\_developer - 18h A well deserved award! A well deserved award! A A Congratulations to my mentor and guide Dr. @bayoadekanmbi. Thank you for all you do for our community, country and continent.



Obinna Ugwu @Obi\_himself - 15h Congrats @bayoadekanmbi , a great man.



Kola Oni @kolaoni - 12h Big congrats to @bayoadekanmbi of @DataScienceNIG on winning the Maathai Impact Award 👸 👌 🍾 🦮



Jade Abbott @alienelf - 3h The force of nature known as @bayoadekanmbil 🍌 Thank you for everything you do and have done for the community. 9 9 #MLinAfrica



Kenny @Kenny4yours - 15h Replying to @Deepindaba @bayoadekanmbi and @DataScienceNIG

@bayoadekanmbi, This is extremely WELL DESERVED! Bayo builds destinies. I can't count the no of professionals and PhD researchers who are products of his effort. He gave his money, network, time and knowledge to build DSN. I got my 1st data science job via DSN free Al Bootcamp



TenX 4-16-74 @ngozid... - 12/05/2019 -24 months ago DataScience and Al were strange concepts to most, even amongst those who were following technology. It is hard to overestimate the impact of what @bayoadekanmbi has done in a short space of time but in a few years people will understand.



#AlsaturdayOgbomoso @Eaute...-11h > Congratulations @bayoadekanmbi (a source of inspiration and a man who has made great impact in the growing of AI in Nigeria) on the winning of Maathai impact award 2019. Thank you for your help in building a greater Nigeria sir



Jacques Ludik @jacquesludik - 3h Congratulations @bayoadekanmbi! Wel deserved!



Daniel Nkemelu @Daniel Nkemelu · 2m Replying to @jerofad

I agree. It's greatly deserved! Congratulations @bayoadekanmbi 767



Sadeeq Akintola 1.1 @SadeeqA... - 17h Congratulations sir Dr. @bayoadekanmbi !

This is indeed well deserved:

Thank you for all you do. We are proud to, yet humbled to celebrate you sir!!



Abimbola Olawale Victor @Abi. - 17h Congratulations to a boss, a mentor and the Covener of @DataScienceNIO , Dr @bayoadekanmbi on a well deserved Award.

Wishing you greater heights Sir



Isma'il @ismailah28 - 3h Congratulations @bayoadekanmbi for a

well deserved award. You're doing great things in Nigeria and beyond and we all say thank you. Congratulations to the other winners as well, keep soaring high.



Michael Olanipekun @pmikeola - 17h Congratulations to @bayoadekanmbi and to all the entire team. We are proud of you sir.

More scored goals by @DataScienceNIG



Kenny @Kenny4yours - 14h Replying to @Obi\_himself and @bayoadekanmbi

Great man by every standard. Thanks for building DSN as a destiny shaper



TenX 4-16-74 @ngozid... - 12/05/2019 ~ 24 months ago DataScience and Al were strange concepts to most, even amongst those who were following technology. It is hard to overestimate the impact of what @bayoadekanmbi has done in a short space of time but in a few years people will understand.



John godday @johngod40 - 4h Thanks for lightning my path @bayoadekanmbi Sir, no limits to what is still coming your way sir Congratulations



Kenny @Kenny4yours - 14h Replying to @Obi\_himself and @bayoadekanmbi

Great man by every standard. Thanks for building DSN as a destiny shaper





Francisca O Oladipo @ciscaola... - 10h Congratulations to all the winners. Special congratulations our own @bayoadekanmbi Ti Ti Si Si 🛰 🍾



Olugbenga Michels Opaade @O... - Th Congratulations sir... A well deserve feat @bayoadekanmbi



Kenny @Kenny4yours - 14h Replying to @joggyjagz7 @bayoadekarımbi and @risin\_developer

He is an extremely good man. Selfless, passionate and awesomely brilliant



Data Knight 🧺 🥹 @emekaboris - 17h Congrats 6460@bayoadekanmbi i really love your work.

Steph-EN [ ] @ @nerdCybe... - 11h -

A king, a boss, a father, and a very rare

breed! Congrats sir, @bayoadekanmbi.



Dennis @Denyxdaso - 1h Congratulations @bayoadekanmbi. You've been a guide and a distant and a huge support. Well deserved



Stephen Odaibo, MD, MS(Math), MS(... + 1st CEO & Founder RETINA-AI | Faculty MD Anderson | Retina Specialist | Healthcare Al expert | Math/Co...

Many Congratulations to Data Science Nigeria Founder, Dr. Bayo (Olubayo) Adekanmbi, for winning the 2019 Maathai Impact Award from the DeepLearning Indaba.

I'm so thrilled. And mind remains blown about how one person can galvanize so much #AI transformation on a continental level so quickly.

"The Maathai Impact Award encourages and recognises work by African innovators that shows impactful application of machine learning and artificial intelligence\*

#### #ML #DeepIndaba #NeurIPS #BlackInAI



Oluwagbenga Olatoye PMP,... • 1st 1d ··· VP, Products & Services at Techspecialist...

Congratulations Dr. Bayo (Olubayo) Adekanmbi, very much deserved, even more to follow! Data Science Nigeria, has impacted, and still impacting thousands of lives, some of which you never and might never meet, yet the fire keeps burning. DSN is changing the narratives in many folds.



Michael Owolabi + 1st Software Developer at Andela

Looking at the comments, one thing we all agree on is the this award is well deserved. You're an amazing inspiration to many on the continent. Congratulations!



Congratulations on your Maathai Impact Award. Your contributions to the youth of Africa is indeed felt everywhere in Africa and the world at large. Thanks for being a wonderful impact in my life and congratulations once again on the awar



Adeyanju Sadiq @Kennyanju - 17h Replying to @DeepIndaba @bayoadekanmbi and @DataScienceNIG

Well deserved



Honestly, @bayoadekanmbi is a wonderful person, I met him once at an event, mans gave me some very solid insights. Congratulations boss



Kelvin Oyanna @Kelvin Oyanna - 4m A well deserved honor to whom honor is due @bayoadekanmbi .

You have committed so much to grow the ML/Al ecosystem in Nigeria.

You have impacted many.

History will forever remember you for your selfless service.



Julius Wanyaga - 1st Digital Banking Consultant

I concur. I haven't seen any other country in Africa where AI is as vibrant. And I think Bayo (Olubayo) Adekanmbi has done a lot to inject more momentum to it. Clearly, Nigeria will not be left behind in the fourth industrial revolution



Pragmatic Lucas @deepminde... - 19h Great one sir! @bayoadekanmbi

Thank you



Ogunyale Richard Kehinde @\_K... · 2m ~ Congratulations Sir @bayoadekanmbi, we are greatly feeling your impact in the Nigeria Al ecosystem. An award well deserved.



Emeka Ogbuju @emekaogbuju - 7m Congratulations Dr. @bayoadekanmbi Keep showing leadership.



Tejúmádé Áfònjá @tejuafonja - 38s Congratulations Dr @bayoadekanmbi 💥



16m ···



feeduse.com @oyewodayo . 9h Congratulations @bayoadekanmbi for this great landmark and achievement. One day I'll be like you.



Uche Ezichi @Uche Ezichi · 2h Congratulations @bayoadekanmbi on your recent recognition. Great @MTNNG ambassador. Keep up the good work!

T.



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Nairobi Al @TheNairobiAl - 6h Congratulations to @bayoadekanmbi and the @DataScienceNIG family for winning the @DeepIndaba Maathai Impact Award.

th

This is truly well deserved! Keep on making impact. #AfricanML



#### Alfred Ongere - 1st

Artificial Intelligence Capacity development | Ai Kenya | Community Builder | Speaker | Teleco...

Congratulations to @Bayo (Olubayo) Adekanmbi for winning the Maathai Impact Award 2019 by Deep Learning Indaba. Proud of the work you do not only for Nigeria but the African continent!



Samuel Edet @EdetSamueledet - 11h Congratulations Dr. @bayoadekanmbi for wining the 2019 Maathai Impact Award. No doubt you have had a huge impact on the Al ecosystem in Nigeria. Cheers to more impact...



Al Saturdays (Ibadan) @AlSatur... - 2h -An honor truly deserved. Congratulations Sir @bayoadekanmbi and the entire @DataScienceNIG family





Emeka Azuka Okoye @EmekaOk... - 3h ~ Congratulations 75 % % III to @bayoadekanmbi for winning the 2019 Maathai Impact Award. I am so proud of your efforts in putting the Nigerian #DataScience ecosystem on the African map. You will continue to soar and I know you will carry us all.



Kamil Olufowobi - 1st Connectologist. Global Thinker, Local Impa...

Congratulations Bayo (Olubayo) Adekanmbi Well deserved! Keep up the good works



Ogunyale Richard Kehinde @\_K.... - 11h ~ Congratulations Sir @bayoadekanmbi, we are greatly feeling your impact in the Nigeria Al ecosystem. An award well deserved.



Dr. Sabastine Okeke @Sabastin... - 6m > Replying to @AlSaturdaysIB @bayoadekanmbi and @DataScienceNIG

Congratulations Oga Bayo... Very well deserved. Well done



Abisola Oni • 1st 11m ---Business Focused Data & Analytics Profess...

Very well deserved. Congratulations! Bayo (Olubayo) Adekanmbi



Tijani Abdulazeez @Tijazz94 - 12h Congratulations to a mentor and role model whom we are all looking up and growing up to become, a person of great personality and humbleness @bayoadekanmbi @DataScienceNIG. May God continue to life you higher higher. Ameen



Jude Uzonwanne - 1st 10h ---Certificate of Participation at School of Me...

A good man will leave a legacy of greatness always. Congratulations to you Bayo Adekanbi on yet another laurel!





Jeremiah Nzere @jerrycletes - 16h Replying to @DeepIndaba @bayoadekanmbi and @DataScienceNIG

Congratulations Dr. Bayo. This is absolutely well deserved,





Aminah Mardiyyah Rufai @Diy... · 17h ~ Replying to @AbimbolaOlawa10 @bayoadekanmbi and @DataScienceNIG



Fasosin @Fasosin1 · 14h
Replying to @DeepIndaba
@bayoadekanmbi and @DataScienceNIG

Congratulations to a great mentor, leader and father! Very much well deserved!



David Adélaní ■ @davlanade · 18 Replying to @DeepIndaba @bayoadekanmbi and @DataScie

Congratulations, well deserved



Data Rantz @udemeudofia - 16h
Congratulations big boss
@bayoadekanmbi
We love you and appreciate all you do!!!





You are a role model!



'Yomi Ojo @YomiOjo\_-9h
Replying to @DeepIndaba
@bayoadekanmbi and @DataScienceNIG
Congratulations sir! @bayoadekanmbi



Olayinka Somuyiwa @dshow225 · 15h Congratulations @bayoadekanmbi . Well deserved.



John godday @johngod40 - 4h
Thanks for lightning my path
@bayoadekanmbi Sir, no limits to what
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Oluwole Benson @itz\_wole · 17h

Replying to @DeepIndaba

@bayoadekanmbi and @DataScienceNIG

Well deserved @bayoadekanmbi Congratulations



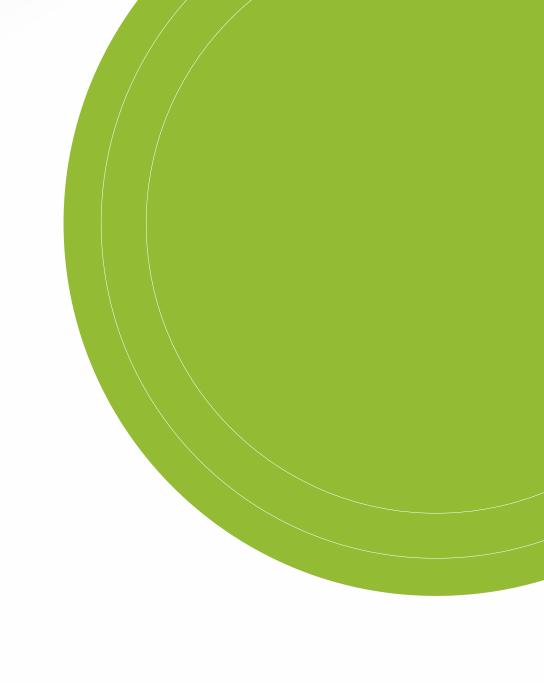
Obinna Ugwu @Obi\_himself - 16h Congrats @bayoadekanmbi , a great man.



Jahfaith @iam\_Jahfaith - 15h

Congratulations Sir @bayoadekanmbi .

Thank you for making DSN a reality.



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- Operation of the properties of the properties
- datasciencenig
- https://goo.gl/Vcjjyp
- (in datasciencenigeria
- o info@datasciencenigeria.org
- +2348140000853