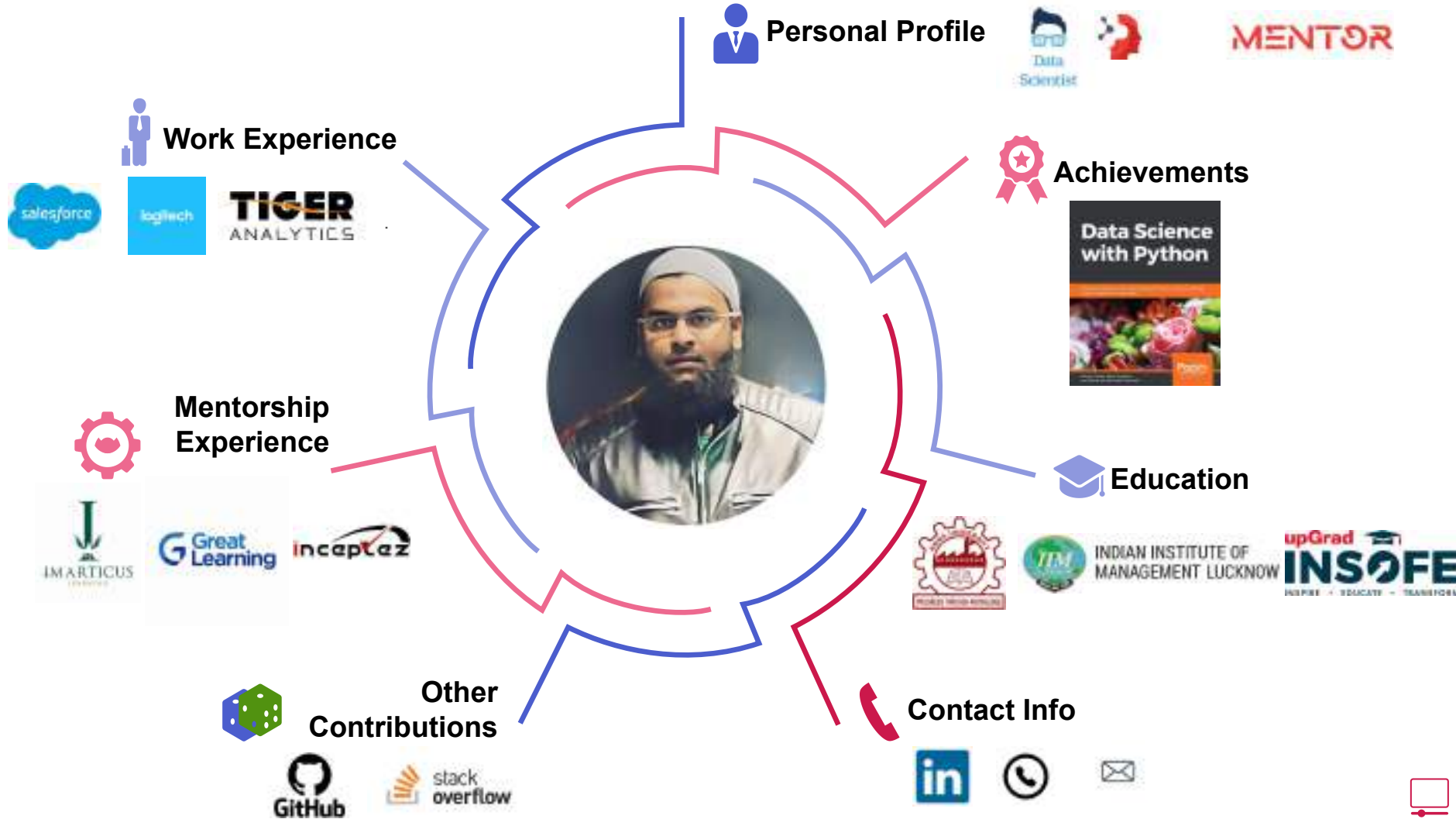




Introduction to Data Science Batch





Mentorship Experience



Reviews and Recommendations



Satheesh Kumar · 1st

Senior Data Architect @ Colabera | Cloud | AWS | Azure | Data Analyst | SQL | Big Data | Streaming | Spark | Hive | NoSQL | Kafka | Scala | Speaker | Blogger

April 17, 2020, Satheesh worked with Mohamed Noordeen but they were at different companies

All LinkedIn members

Noordeen is a god-gifted instructor. He has many years of experience in data science, knows a variety of creative methods, and ensures what you need to learn. His calming personality makes you feel completely comfortable, even when you are making mistakes. He is always encouraging and positive. He is the best data science instructor I have ever met from a dozen of instructors over the years with different geographies.

Sometimes, he pushes people to drive the path to achieve desired results. The way he handles shows the quality of managing people in unique and convinced way.

I have come across many profiles in data science industry and got a chance to interact with them globally. Without doubt, Noordeen is one of the biggest South Indian profile with lots of talent, continuous technology updating, also helping people personally during emergency period.

I can proudly say Noor is the best in technology, humanity, and cares for a person to involve in subject. None of them have all these 3 qualities in the market. He is man who jumped directly from heaven to earth.

If you want to improve your data science innovation and make quality decision to reach higher business results quickly, He is the right person to approach. You still see the magic. He is not only focusing on technology to achieve the results but also drives how solution suits and help people in business.

I am sure and wish him, will reach greater heights in in future days.



rajguru ramalingam · 1st

Data Scientist

August 30, 2022, Mohamed Noordeen was senior to rajguru but didn't manage rajguru directly

All LinkedIn members

"Noordeen - The Best Mentor"

Noordeen is an expert in solving Business problems using Data Science skills. He is also one of the greatest Mentor/Trainer in his expertise area. I was mentored by him in Data science, using which I got multiple offers. His way of teaching involves easy understanding using examples, layman language and best practices. Also like his thinking on continuous learning and updating himself with recent technologies.



Sridhar Pappu · 1st

President: uGDX Institute of Technology (Formerly INSOFTE) | Professor at uGDXIT | Adjunct Faculty at Case Western Reserve University

May 18, 2017, Sridhar was Mohamed Noordeen's teacher

All LinkedIn members

Mohamed Noordeen has all the right qualities to do well personally and professionally. His dedication to learning Data Science is amply visible from the fact that he traveled every weekend from Chennai to Bengaluru for a duration of nearly 6 months to do our rigorous certificate program. In a class of nearly 50 professionals, he did very well and even secured a scholarship that only a few in the class got. Even after getting the scholarship, he approached our Data Scientists to learn what mistakes he had made.

In addition to grasping well the concepts of various Statistical, Machine Learning and Big Data techniques, he has displayed excellent coding skills as well. His approach to a problem is also very systematic and meticulous.

In addition, he is a very polite and soft-spoken person and will get well in any team. I am sure Mohamed Noordeen will be an asset to any Data Science team, or any team, in general.



L S Kiran CH · 1st

Engineering Lead | Data Solution Architect | Big Data Engineer | Enterprise Data Integrations | DevOps-CI/CD | Technology Consulting | Palantir Foundry | Cloud - AWS

December 21, 2022, L S Kiran worked with Mohamed Noordeen but they were at different companies

I got opportunity to learn Data Science from Noordeen. He helped to me become advanced level in ML, DL, NLP and related ecosystem components. Starting with solving simple problem statement to complex one by doing the Hackathons in public forums like Analytics Vidhya and Kaggle and while see our rank in those portals, we got confidence which further encouraged me to do much more.

Tons of Thanks to Noordeen for such dedication in educating us and make us a professionals in the field of Data science.

I can say that, it is almost impossible to get this type of learnings anywhere else due his unique nature of instructiveness while teaching along with doubt clearing then and there during session and I almost felt that we are actually in physical class room than virtual live session.

Truly speaking, When we have great knowledge, there are many way to earn money, but Noordeen chosen the field of education to enhance many people lives with career growth. This motive really great and very kind gesture towards the society we are in. Thanks a lot and keep doing.





muthu kumaran

1 review · 1 photo

★★★★★ 3 months ago

I was referred to Inceptez by one of my friends and was a little skeptical to join because I had only knowledge of SQL and Informatica support activities. I had not worked as a developer in my career. But after joining the AIML course in Inceptez, I was handed over to two of the best mentors (Imran and Noor). Imran and Noor taught us all the python concepts, stats and ML algorithms, DL, NLP related projects. They never were in a hurry to complete a specific topic and move ahead. They had their roadmap and perfectly followed that without any delay. All doubts were cleared before moving on to the next session. Assignments and coding problems were given on regular basis to enhance our coding skills and to increase understanding of the ML concepts in depth. Whatever contents were promised before joining the course were completed and even some advanced concepts which are not in the curriculum were taught to us.

@Noor Inceptez You have been a great mentor and tutor for me personally, really motivated to get a move on into this exciting domain of data science and I really hope god shower you with good health and more success. Thank you for believing in us.



Isklranch3 ch

1 review

★★★★★ 3 months ago

Data Science course is my 3rd Course at Inceptez. I learnt Big data and Dev Ops here which uplifted my career 5x faster than usual. With Data Science knowledge addition looking forward to step-up up my career further level. Last year, I have feeling that I am out of track with the respect to AI and ML area before learning. But Noordeen made me from novice to advanced level in ML, DL, NLP and related ecosystem components. Starting with solving simple problem statement to complex one by doing the Hackathons in public forums like Analytics Vidhya and Kaggle and while see our rank in those portals, we got confidence which further encouraged me to do much more.

Tons of Thanks to Inceptez and Noordeen for such dedication in educating us and make us a professional engineers in the field of Data science.

I can say that, it is almost impossible to get this type of course anywhere else due it's unique features like interactive Live session from industry expert like Noor along with doubt Noordeen then and there during class and we almost felt that we are actually in physical class room than virtual live session.

Truly speaking, when we have great knowledge, there are many way to earn money, but Inceptez and



Kavitha Seenivasan

1 review

★★★★★ a year ago

Positive: Professionalism, Quality, Value

Good place to take Data science. Noordeen sir is the good trainer and mentor, who teaches all basic to advance concepts in Machine learning, deep learning and NLP. Calmly clears all our doubts with no hesitation and repeat the explanation in different angle for the hard to understand topics. Gave us motivation and support for all the time. Thanks to Inceptez for support and encouragement.



Rajkumar Rajendran

1 review

★★★★★ a year ago

Positive: Communication, Professionalism, Quality, Value

Best place to learn Data Science is Inceptez Technologies. Noor is a great teacher, mentor & motivator, he has very depth knowledge in ML, DL & NLP and the way he makes us understand the concepts are awesome. Thanks to Inceptez for providing the necessary support. I would recommend Inceptez to all those who aspire to learn Data Science.



mohamed suhaib

1 review

★★★★★ a year ago

Positive: Communication, Professionalism, Quality, Value

I have taken up Data Science course in Inceptez, my instructor is Noordeen. He has lot of experience in data science platforms like Machine Learning, Deep Learning, NLP, Python and statistics. He taught us almost all the algorithms and preprocessing and feature engineering techniques using in ML and DL and NLP using in today's market and provided lot of practical and coding examples using real time Kaggle dataset and helped us to understanding the algorithms in better and easy way.



Divya Narayana

1 review

★★★★★ 3 months ago

It's a great place to learn the Data Science course here. I came to know about Inceptez through my brother who completed the Big Data course successfully and now he's a successful Data Engineer in a reputed company. I love learning here. They are explaining every concept in detail. I highly recommend aspirants to do the courses here. Thanks to Noor

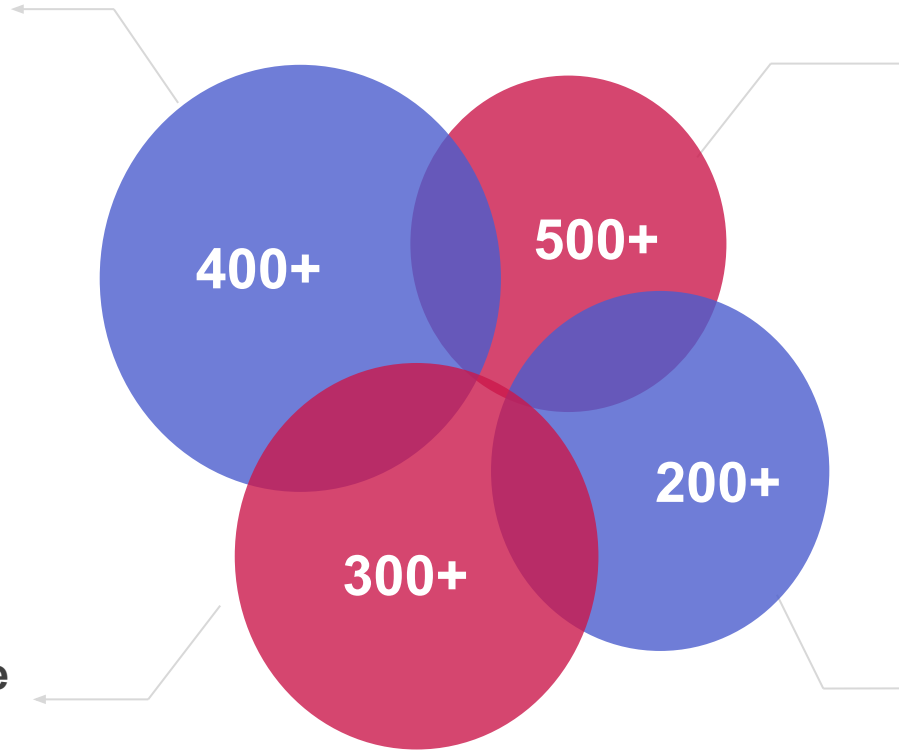
Mentored above 2000+ Data Science Aspirants

Offline Course
(7 Batches)

Workshop
(10+ Batches)

Online Course
(6 Batches)

Corporate and
College Training
(3 Organisations
and 2 Colleges)





glassdoor

25 Best Jobs in America (2016)

Best Jobs		2016	United States		SALES	f	tw	in	yt
Job Title		Median Base Salary	Career Opportunity	Job Openings					
#1	Data Scientist	\$116,840	4.1/5	1,736	View Jobs				
#2	Tax Manager	\$108,000	3.9/5	1,574	View Jobs				
#3	Solutions Architect	\$119,500	3.5/5	2,906	View Jobs				



25 Best Jobs in America (2017)

Best Jobs		2017	United States		blaze				
Job Title		Median Base Salary	Job Satisfaction	Job Openings					
#1	Data Scientist	\$110,000	4.4/5	4,184	View Jobs				
#2	DevOps Engineer	\$110,000	4.2/5	2,725	View Jobs				
#3	Data Engineer	\$106,000	4.3/5	2,599	View Jobs				



25 Best Jobs in America (2018)

Best Jobs		2018	United States	Share	
Job Title		Median Base Salary	Job Satisfaction	Job Openings	
#1	Data Scientist	\$110,000	4.2/s	4,524	View Jobs
#2	DevOps Engineer	\$105,000	4.0/s	3,369	View Jobs
#3	Marketing Manager	\$85,000	4.0/s	6,439	View Jobs



25 Best Jobs in America (2019)

Best Jobs		2019	United States		Share				
Job Title		Median Base Salary	Job Satisfaction		Job Openings				
#1	Data Scientist	\$108,000	4.3/5		6,510		View Jobs		
#2	Nursing Manager	\$83,000	4/5		13,931		View Jobs		
#3	Marketing Manager	\$82,000	4.2/5		7,395		View Jobs		



FIGURE 22

Top 20 job roles in increasing and decreasing demand across industries

➤ Increasing demand

1	Data Analysts and Scientists
2	AI and Machine Learning Specialists
3	Big Data Specialists
4	Digital Marketing and Strategy Specialists
5	Process Automation Specialists
6	Business Development Professionals
7	Digital Transformation Specialists
8	Information Security Analysts
9	Software and Applications Developers
10	Internet of Things Specialists
11	Project Managers
12	Business Services and Administration Managers
13	Database and Network Professionals
14	Robotics Engineers
15	Strategic Advisors
16	Management and Organization Analysts
17	FinTech Engineers
18	Mechanics and Machinery Repairers
19	Organizational Development Specialists
20	Risk Management Specialists

➤ Decreasing demand

1	Data Entry Clerks
2	Administrative and Executive Secretaries
3	Accounting, Bookkeeping and Payroll Clerks
4	Accountants and Auditors
5	Assembly and Factory Workers
6	Business Services and Administration Managers
7	Client Information and Customer Service Workers
8	General and Operations Managers
9	Mechanics and Machinery Repairers
10	Material-Recording and Stock-Keeping Clerks
11	Financial Analysts
12	Postal Service Clerks
13	Sales Rep., Wholesale and Manuf., Tech. and Sci. Products
14	Relationship Managers
15	Bank Tellers and Related Clerks
16	Door-To-Door-Sales, News and Street Vendors
17	Electronics and Telecoms Installers and Repairers
18	Human Resources Specialists
19	Training and Development Specialists
20	Construction Laborers

Source:

Future of Jobs Survey 2020, World Economic Forum.



FIGURE 29

Data and AI jobs of tomorrow, top roles and typical skills in past transitions

A. Opportunities within professional cluster

Rank	Scale of opportunity	Job
1	Mass	Artificial Intelligence Specialist
2	Mass	Data Scientist
3	Mass	Data Engineer
4	Niche	Big Data Developer
5	Mass	Data Analyst
6	Mass	Analytics Specialist
7	Niche	Data Consultant
8	Niche	Insights Analyst
9	Niche	Business Intelligence Developer
10	Mass	Analytics Consultant

B. Typical skills gaps across successful job transitions

Rank	Skill	Skill gap of workers transitioning into this job cluster (0 is full gap, 1 is no gap)
1	Data Science	0.19
2	Data Storage Technologies	0.41
3	Artificial Intelligence	0.10
4	Development Tools	0.73
5	Computer Networking	0.78
6	Management Consulting	0.85
7	Scientific Computing	0.41
8	Product Marketing	1.00
9	Natural Language Processing	0.11
10	Digital Marketing	1.00
11	Advertising	1.00
12	Cloud Computing	0.27
13	Customer Experience	1.00
14	Signal Processing	0.15
15	Information Management	0.93
16	Software Development Life Cycle (SDLC)	1.00

Source

LinkedIn Economic Graph.

Note

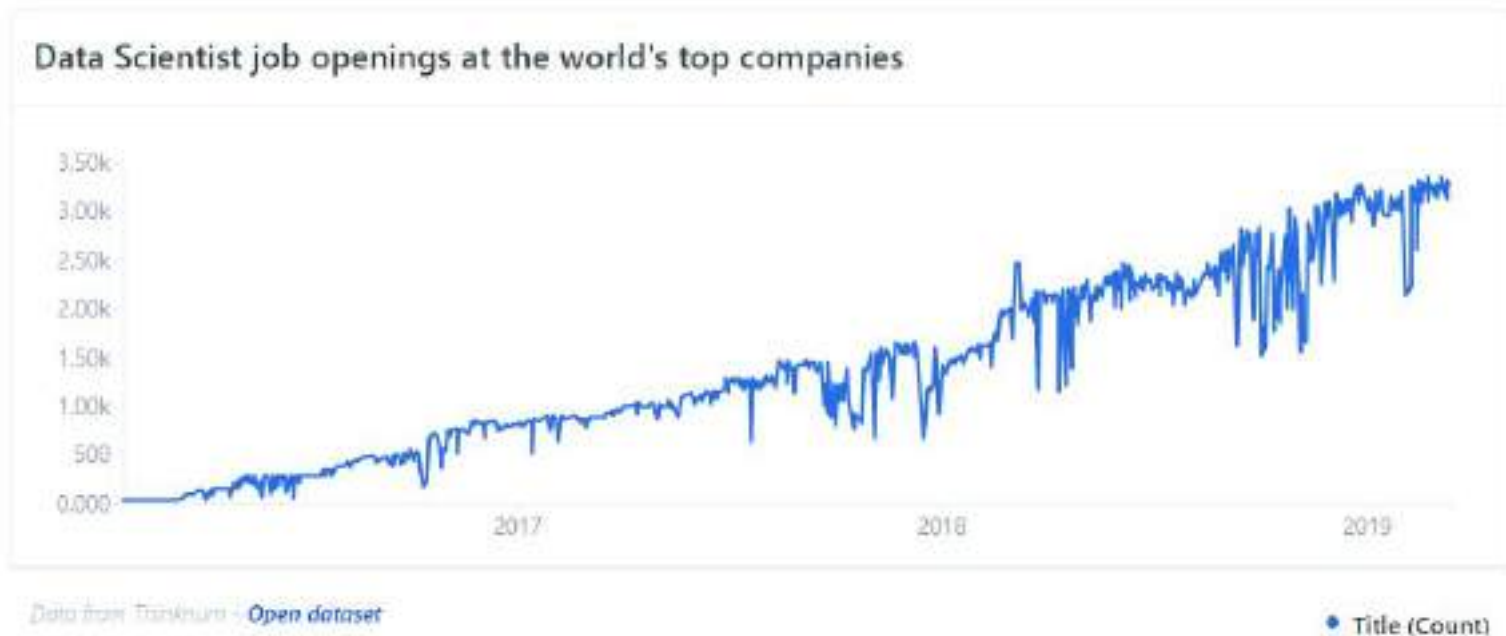
The gap measure has been capped at 1.00.



https://www.glassdoor.com/List/Best-Jobs-in-America-LST_KQ0,20.htm
<https://www.weforum.org/reports/the-future-of-jobs-report-2020>

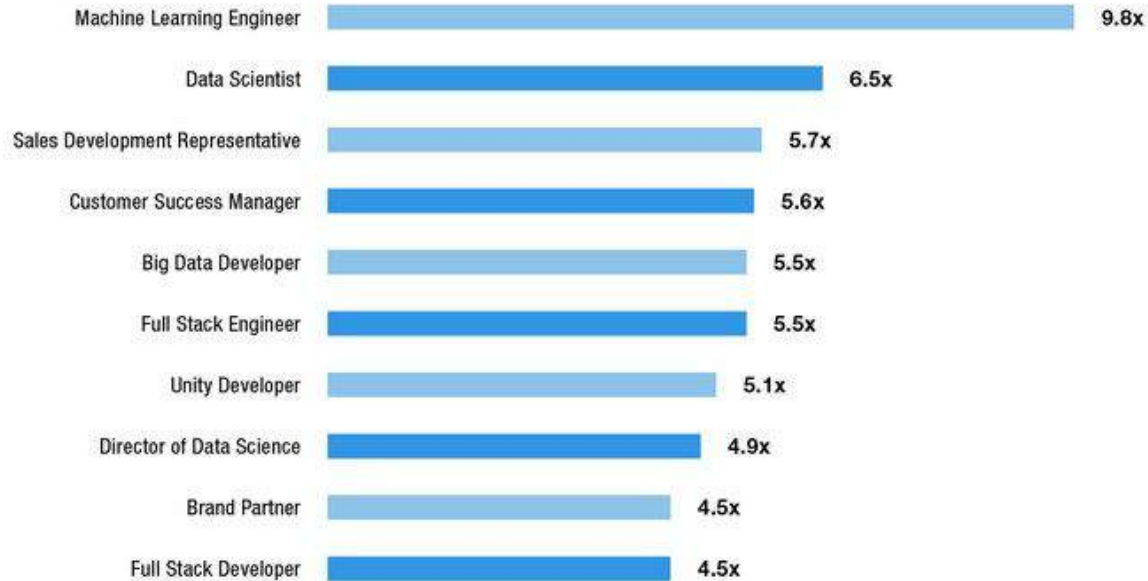


High Demand of Data Scientist



Low Supply of Data Scientist

1. The world needs **28%** more data scientists worldwide by **2020** to meet growing demand
2. There's a shortage of **151,717** data scientists in the U.S. alone.
3. **59%** of data science job demand is in Finance, Professional Services, and IT
4. The highest demand for data skills is in the area of **machine learning**.



**WHY THE DEMAND IS
HIGH?**



DATA SCIENCE DOMAINS

FINANCE

Asset pricing, trading strategies and more

HEALTHCARE

Epidemiology, Insurance, Image recognition

PHARMACEUTICALS

Patient Journey, Treatment Pathways

GOVERNMENT

Climate Change, Public Policy, Security

MANUFACTURING

Supply Chain, Equipment maintenance and others

RETAIL

Pricing, Discounts, Market Basket Analysis

OIL & GAS

Drilling, Sensors, Equipment Maintenance

TRANSPORTATION

Airline Promotions, Passenger promotions

UTILITIES

Smart Meter Grids, Power consumption

WEB INDUSTRY

Clickthrough Ads, Marketing

INTERNET SECURITY

Log monitoring, Alerts, Detecting intrusions

SPACE & SCIENCE

High Energy Physics, R&D and much more



1. Increasing data complexity
2. Business optimization and innovation
3. Industry-wide adoption



<https://www.indiatoday.in/education-today/jobs-and-careers/story/career-outlook-for-data-scientists-in-india-sky-high-pay-and-rising-demand-1825991-2021-07-09>

<https://hr.economictimes.indiatimes.com/news/industry/11-5-million-data-science-jobs-will-be-created-globally-by-2026-report/87800256>

<https://towardsdatascience.com/is-data-science-still-a-rising-career-in-2021-722281f7074c#:~:text=Per%20LinkedIn%2C%20there%20has%20been,in%202020%20at%20around%206500.>

<https://data-flair.training/blogs/data-science-job-trends/>

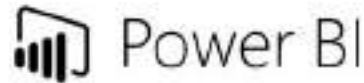


My Theory

ERA 1



ERA 2



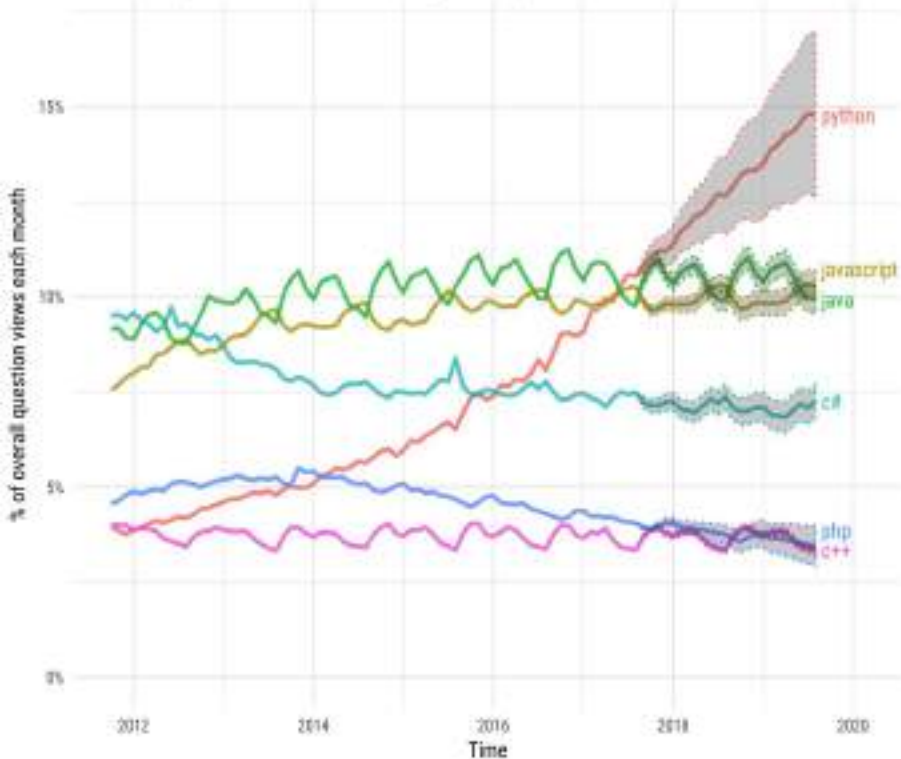
ERA 3



Python's Huge Demand and Popularity

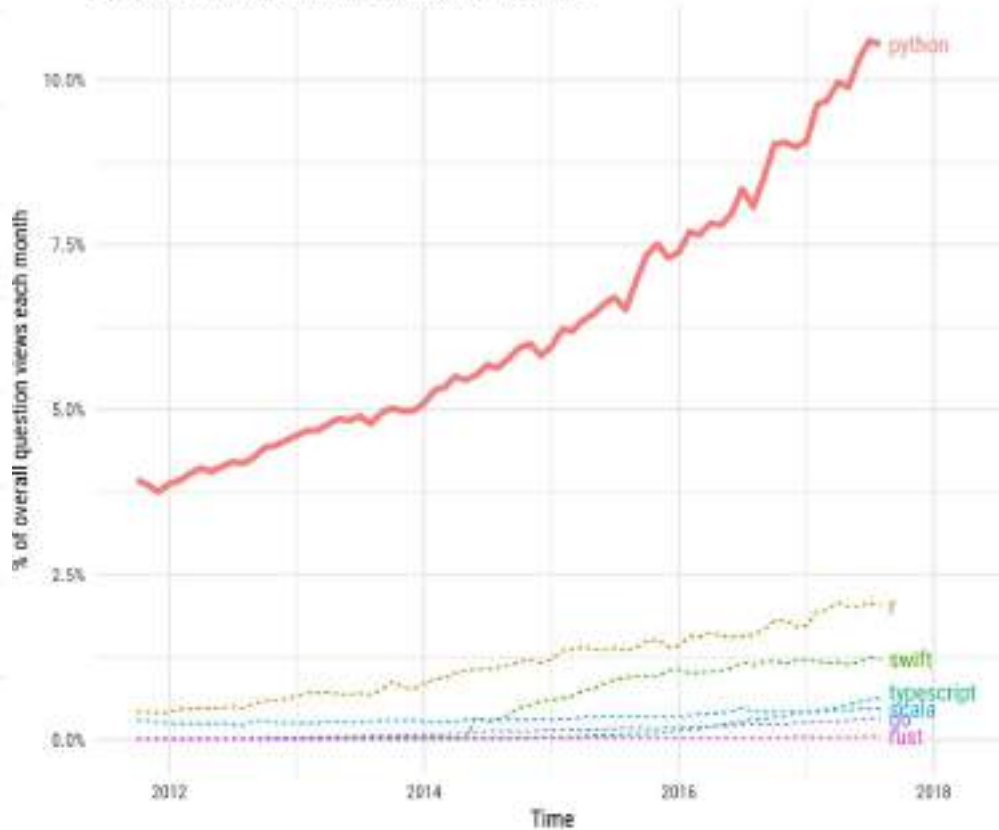
Projections of future traffic for major programming languages

Future traffic is predicted with an STL model, along with an 80% prediction interval.



Python compared to smaller, growing technologies

Based on question traffic in World Bank high-income countries



What is Machine Learning?





Baby Learning





Machine Learning



Traditional Programing Vs Machine Learning



AI and Jobs

Which Jobs are at Risk and Which Industries are Impacted?

- **Jobs at Risk:** Routine and repetitive tasks, such as data entry and assembly line work
 - Transportation, manufacturing, and retail are among the most impacted industries
- **Jobs in Demand:** High-skill and non-routine tasks, such as data analysis and creative work
 - Healthcare, education, and technology are among the most in-demand industries



Photo by [Unsplash](#)

Future Jobs - Michio Kaku - Physicist

- Those of Artificial intelligence can't do
- Pattern recognition and common sense are big
- problem of AI
- Repetitive jobs will be wiped off

Jobs involved in intellectual capitalism will shine like

- Leadership
- Creativity
- Analysis
- Imagination
- Telling joke
- Writing a story, script



Reskilling

Importance of Reskilling and Upskilling Employees

- **Reskilling:** Learning new skills to adapt to new job roles and technologies
 - Online courses, apprenticeships, and on-the-job training can all be effective reskilling methods
- **Upskilling:** Improving existing skills to stay up-to-date with new technologies and industry trends
 - Continuous learning and professional development are key to upskilling



Photo by [Unsplash](#)

Soft Skills

Creativity, Emotional Intelligence, and Communication

- **Creativity:** The ability to think outside the box and come up with innovative solutions
 - Important for developing new products and services, and improving existing ones
- **Emotional Intelligence:** The ability to understand and manage one's own emotions, and empathize with others
 - Important for building strong relationships with colleagues and clients
- **Communication:** The ability to convey ideas and information clearly and effectively
 - Important for collaborating with others and presenting ideas to stakeholders



Photo by [Unsplash](#)

Industry Case Studies

How Various Industries Have Adapted to AI Technology

- **Healthcare:** AI technology is being used to improve patient outcomes and reduce costs, through applications such as medical imaging and predictive analytics
- **Manufacturing:** AI technology is being used to improve efficiency and productivity, through applications such as predictive maintenance and quality control
- **Retail:** AI technology is being used to improve customer experience and increase sales, through applications such as personalized recommendations and chatbots



Photo by [Unsplash](#)

Exhibit 1: Imitating Traditional Development Paths Is Impossible for Emerging Economies

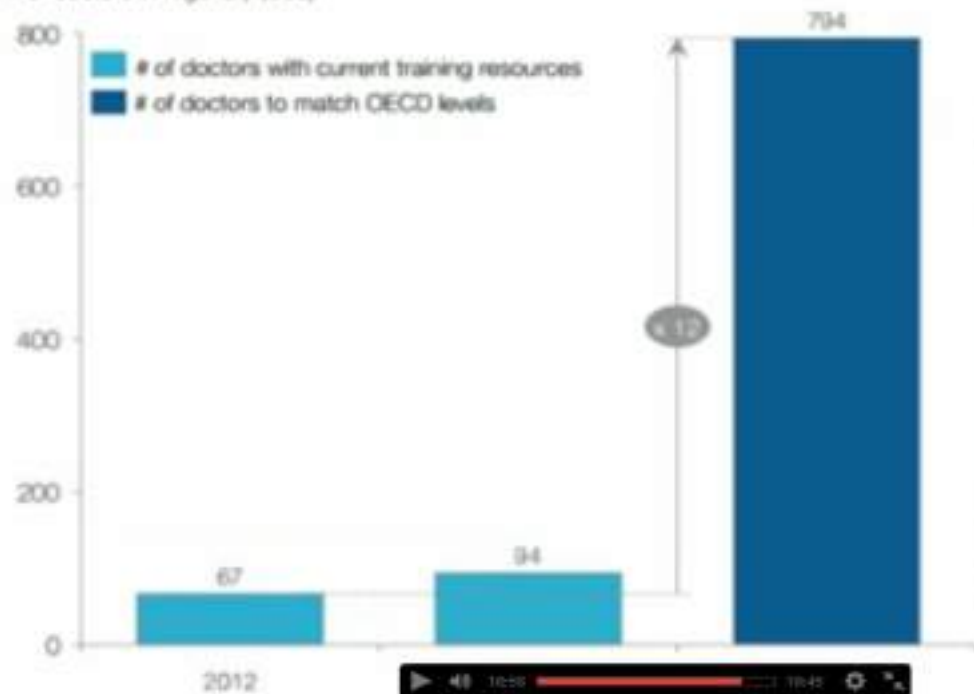
Nigeria would need over 700,000 additional doctors to reach OECD levels by 2030

Sources: World Bank, WHO, Africa Health Workforce Observatory, BMI, IFC, BCG



COMMITTED TO
IMPROVING THE STATE
OF THE WORLD

of doctors in Nigeria (1,000)



Cost:

US\$ 51 billion, equaling 20% of GDP (2012) or 10 times public health expenditure (2012)

Duration:

300 years with existing training infrastructure

Steps to Stay Ahead

Networking, Continuous Learning, and Adaptability

- **Networking:** Building relationships with colleagues, mentors, and industry experts can help individuals stay informed about new job opportunities and industry trends
- **Continuous Learning:** Investing in education and training programs can help individuals develop new skills and stay up-to-date with new technologies and industry trends
- **Adaptability:** Being open to new job roles and technologies, and willing to learn and adapt, can help individuals stay ahead in the job market with AI technology



Photo by [Unsplash](#)



How to tame it?



Revise Statistics and Probability



Learn algorithm how it works rather
concentrating on output



**HOW IT
WORKS**



Learn and practice a programming language



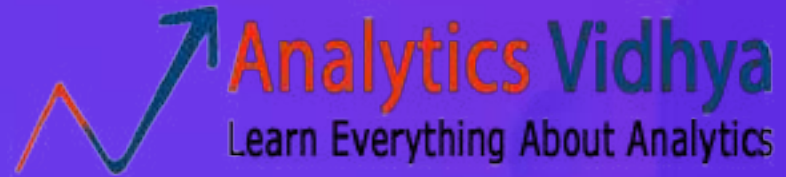
Big data and Data science are happily married



Practice all algorithm with each use case



Make use of Kaggle and Analytics vidhya



Contribute your work to Opensource



Write a blog



References

- https://www.ted.com/playlists/310/talks_on_artificial_intelligen
- <http://www.kdnuggets.com/>
- <https://www.youtube.com>
- <https://www.cubs100.org/GetImage.aspx?IDMF=ea11fbcd-1eb1-4829-9276-41f91b5bd75a&w=900&h=600&src=mc>
- <https://securityledger.com/wp-content/uploads/2016/05/IBM-Watson.jpg>



Conclusion



Key Takeaways and Future of AI and
the Job Market

