INTRODUCTION TO AI & ML

THANKYOU

WELCOME

AUDIENCE INTRO

- Your Name
- Your Role
- Experience & Domain
- Company
- Expectation from this Course
- Why you have joined Inceptez?
- Who has referred?





Accelerate an idea to a S.T.A.R (Scalable, Trustable, Adaptable, Reliable) Machine Learning product for Large Enterprises

Mission to transform 1 million Mid-Career IT Professionals stuck in the career ladder, up-skill to Data Science and Machine Learning

Balaii Janarthanam

Technical Lead - Machine Learning Engineer | Ex-Accenture | Innovator - 7 Patents | Mentor

Talks about #mlops, #azureai, #gcpcloud, #datascience, and #machinelearning



Viasat Inc.



College of Engineering,

https://www.linkedin.com/in/balaji-janarthanam/

Training Credentials:

- Google Certified TensorFlow Developer
- Microsoft Certified Azure Data Scientist
- 500+ hrs of AI/ML Training delivered to IT/Non-IT Professionals, PhDs, Professors, Students



Chockalingam Shanmugam · 1st

Supply Chain Manager / Specialist - Asia Pacific at Vestas

I wish Balaji a great success in his Data Science journey!

December 21, 2019, Chockalingam was senior to Balaji but didn't manage Balaji directly





Balaii was my Data Science instructor in a private institution. He has sound knowledge and extensive hands-on experience in this field. He has an unique ability to connect the students with a simplified example from day today life. He took an extra step to make the learning experience more enjoyable. His efforts towards making us apply the techniques learnt, in our own filed is much appreciated.



Chandramouli Ramasamy . 1st

Assistant Manager (Scrum Master and Agile Coach) at Tata Consultancy Services December 23, 2019, Chandramouli was senior to Balaji but didn't manage Balaji directly









"We search a lot of courses online to learn data science and machine learning. Trust me the subject and its application is massive. Its not a joke to learn such a subject in a short period of time. But Mr.Balaji (Trainer) makes life easy for you in this journey of getting acquainted with data science and ML. His experience is vast and the way he teaches is very easy to understand and also he relate all the algorithm and problem with real time use case and also he co-relate those concept with the day to today life example. Though i am not from non IT background, i am able to create models and understood the Data science and ML in short term and applying it. I strongly recommend Mr.Balaji to everyone who are all interested in starting their journey towards DS & ML."



ANNIE JAMES · 1st

Analyst at TAMILNADU E-GOVERNANCE AGENCY

December 22, 2019, Balaji was senior to ANNIE but didn't manage ANNIE directly









I had an opportunity to study Data Science under Balaji's guidance. Balaji is a very creative thinker, and is passionate about his responsibilities. I got amazed by his strong understanding on machine learning techniques. He makes us work hard on assignments and lectures the class with live examples. Data science is huge subject which can be lectured by anyone but none is there as Balaji to make the class entertaining and enthusiastic in studying the vague algorithms and difficult problems. I had a transisition from my current responsibilities to Data science team. I strongly recommend Mr.Balaji as a best mentor to whomsoever wants to join Data Science and crack any complex real life problems .



Dr. Rajesh Kumar V R S · 1st

Director at Eishaa Communication Systems Pvt. Ltd.(Hiring C, C++, Java, Telecom, Data Networking, VLSI, Embedded, QT,QML, Cloud Professionals)

March 8, 2020, Dr. Rajesh Kumar was senior to Balaji but didn't manage Balaji directly

All LinkedIn members





Balaji is a passionate data scientist who also loves teaching data science. I recommend those who are really interested to learn data science must listen his lectures which are highly motivating and thought provoking.



Balaii Venkateswaran in . 1st

Data Scientist@FLEX | Doctorate in Data Science| Finance, Marketing, HR & Supply Chain | Mentor | Author | Trainer | AlgoTrader | Growth Hacker

July 5, 2021, Balaji was senior to Balaji but didn't manage Balaji directly

All LinkedIn members



I have known and worked in same project as Balaji within Accenture. He has been into data science for the past few years and has shaped really well. He is my go-to person for any data science problem and support. He is a keen innovator trying to build new products and concepts with Data Science. He started his career in telecom and has applied data science successfully to telecom domain. His passion for machine learning and his strong attitude towards learning new algorithms are invaluable to ensuring the success of any project.

EXPECTATIONS

- Dedication
- Practice Daily
- Don't miss any class
- Collaborate with participants

IS DATA SCIENCE A RISING CAREER 2022?

glassdoor

25 BEST JOBS IN AMERICA (2016)



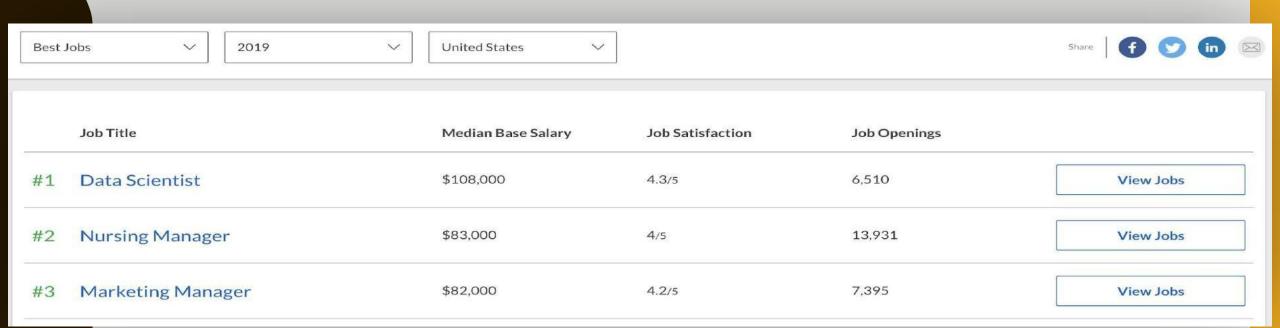
25 BEST JOBS IN AMERICA (2017)



25 BEST JOBS IN AMERICA (2018)

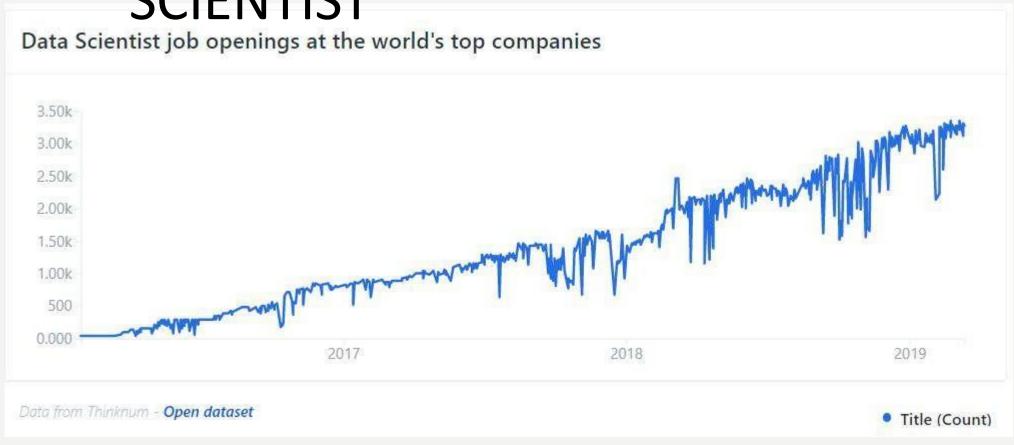


25 BEST JOBS IN AMERICA (2019)



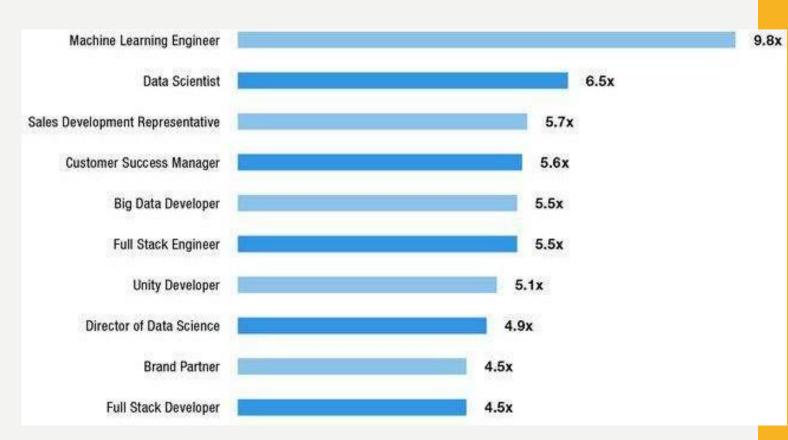


HIGH DEMAND OF DATA SCIENTIST



LOW SUPPLY OF DATA SCIENTIST

- 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

GOVERNMENT

Climate Change, Public Policy, Security

OIL & GAS

Drilling, Sensors, Equipment Maintenance

WEB INDUSTRY

Clickthrough Ads, Marketing

HEALTHCARE

Epidemiology, Insurance, Image recognition

MANUFACTURING

Supply Chain, Equipment maintenance and others

TRANSPORTATION

Airline Promotions, Passenger promotions

INTERNET SECURITY

Log monitoring, Alerts, Detecting intrusions

PHARMACEUTICALS

Patient Journey, Treatment Pathways

RETAIL

Pricing, Discounts, Market Basket Analysis

UTILITIES

Smart Meter Grids, Power consumption

SPACE & SCIENCE

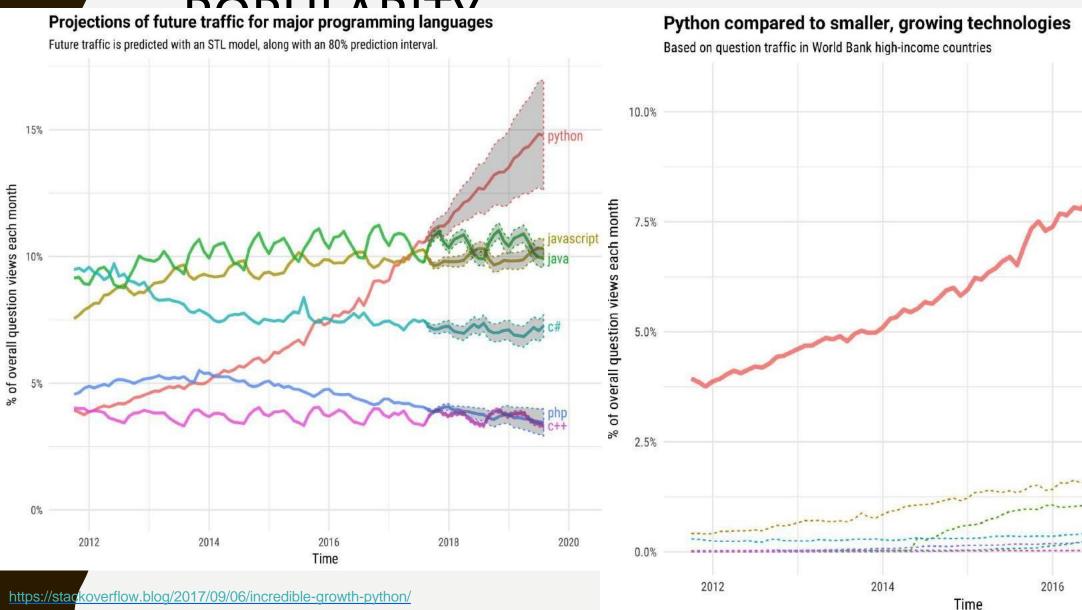
High Energy Physics, R&D and much more

https://www.indiatoday.in/education -today/jobs-and-careers/story/caree r-outlook-for-data-scientists-in-india -sky-high-pay-and-rising-demand-1 825991-2021-07-09 https://hr.economictimes.indiatimes. com/news/industry/11-5-million-dat a-science-jobs-will-be-created-glob ally-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/datascience-job-trends/

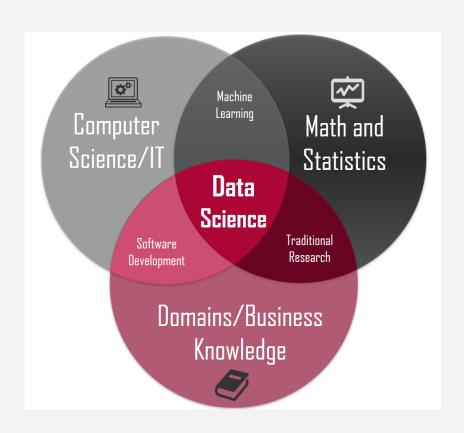
PYTHON'S HUGE DEMAND AND



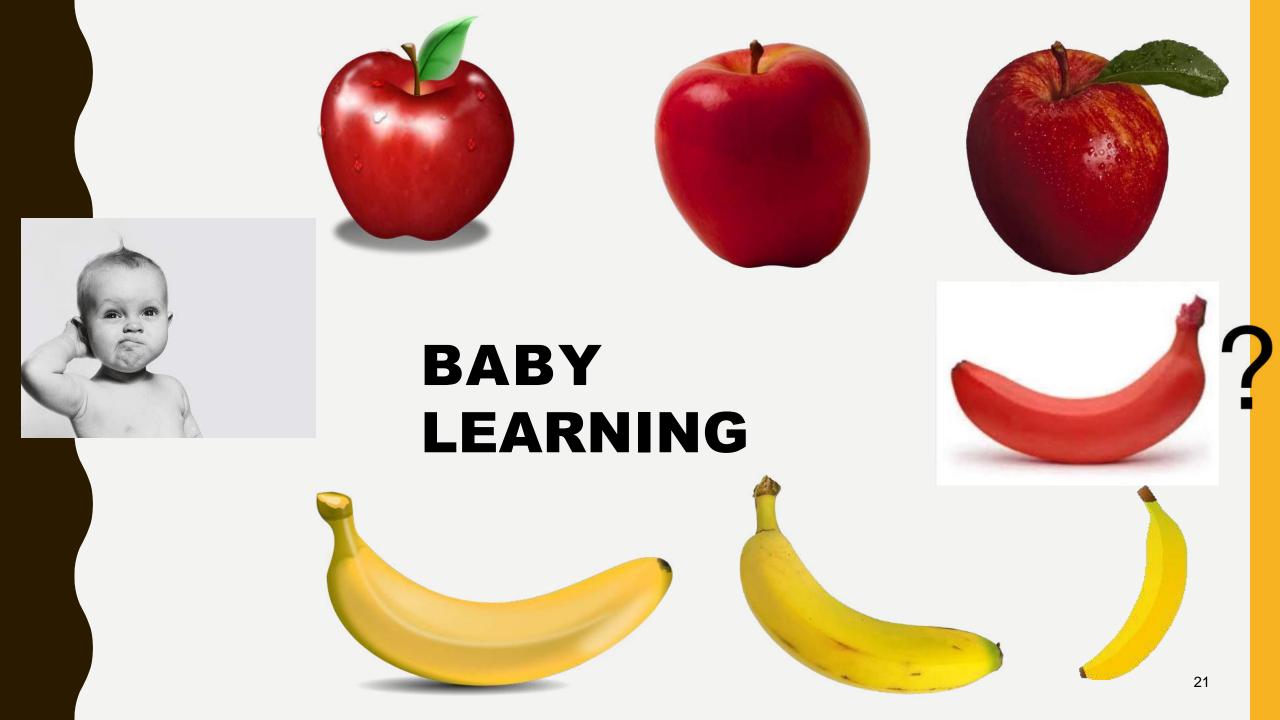


2018

WHAT IS DATASCIENCE



WHAT IS MACHINE LEARNING?





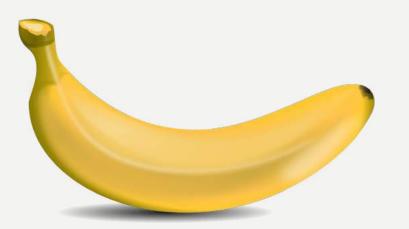






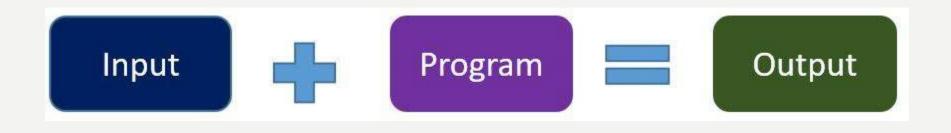








TRADITIONAL PROGRAMING VS MACHINE LEARNING







"In God we trust.
All others must bring data."

- Dr. W. Edwards Deming

MACHINE LEARNING WONDERS AT PAST



Hello, Gil Starkey. We have recommendations for you. (Not Gil?)

Gil's Amazon.com Today's Deals Gifts & Wish Lists Gift Cards

Search All Departments

Your Amazon.com > Your Amazon Facebook Page

Facebook Profile Info

Edit your Facebook profile 🐕

Birthday: June 10

Current City: Chicago, Illinois

You don't have any information about favorite books, music, or movies on Facebook. Edit your Facebook profile and add your favorites to get personalized recommendations on this page.

Birthday and Gift Suggestions for Your Friends on Facebook



November 1 (in 3 weeks)

See gift suggestions



See gift suggestions



December 8 See gift suggestions



December 27



See gift suggestions

See

> See all friends on Facebook and their birthdays

Popular Among Your Friends on Facebook



The Godfather DVD Collection... DVD ~ Marlon Brando

****** (630) \$41.49



) See more



Back in Black ~ AC/DC

WANTER (677) \$9.99

2 friends like this:

See more



> See more



WANTA (239) \$12.49 ******** (383) \$188 00 2 friends like this:



See more



Set ~ The Beatles





See more

Other Movies You Might Enjoy



Amelie















Eiken has been added to your Queue at position 2.

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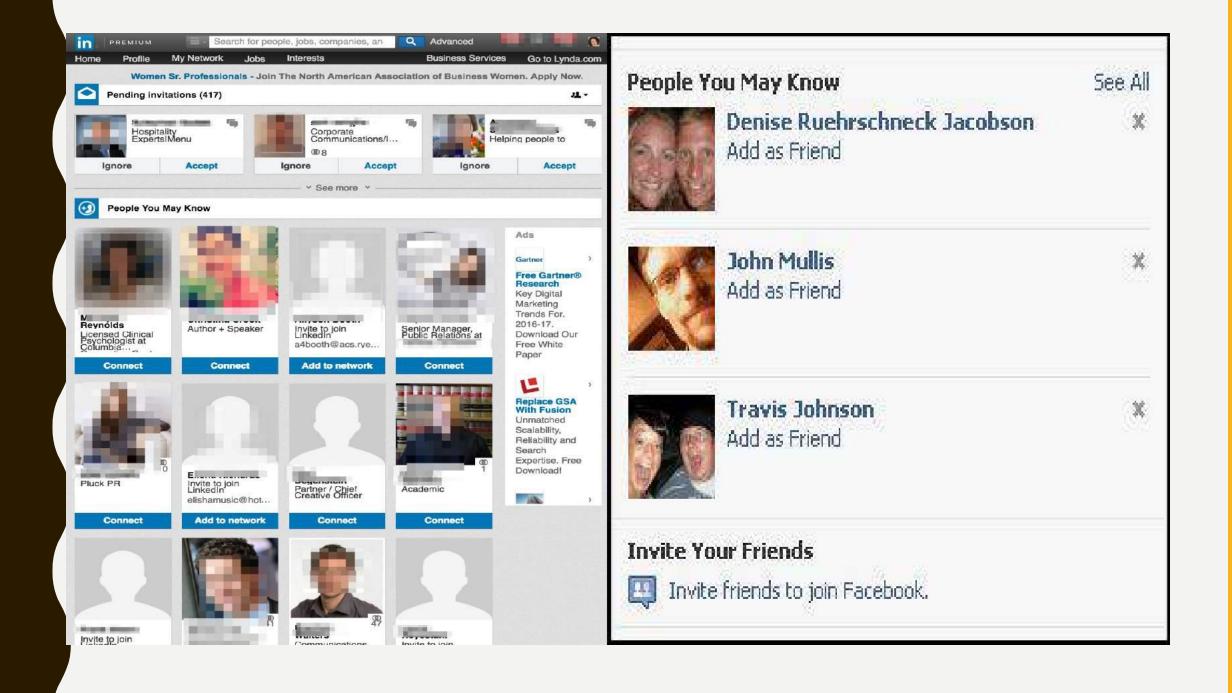
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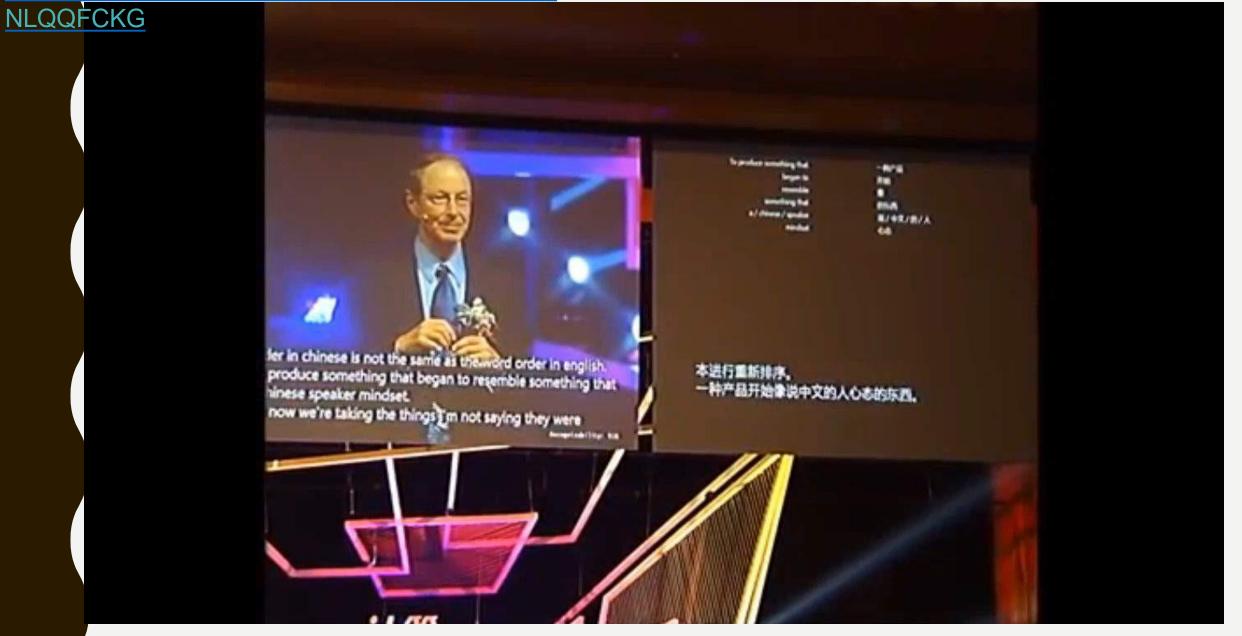
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COMPUTERS CAN LISTEN AND UNDERSTAND

HTTPS://WWW.YOUTUBE.COM/WATCH?V=NU-



COMPUTERS CAN SEE



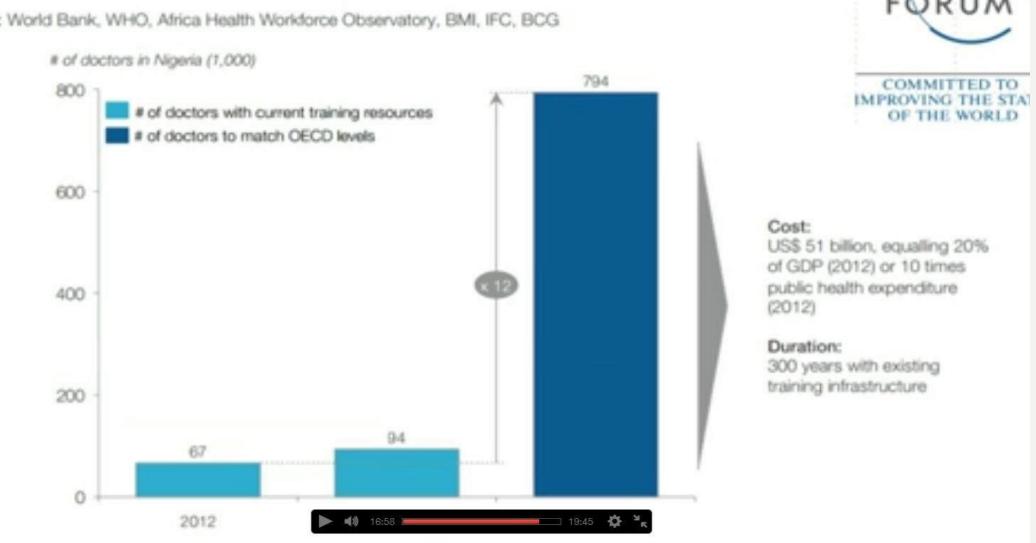




FOR FUTURE

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 Worldorce Observatory, BMI, IFC, BCG



WORLD

Reading & Writing

Speaking & Listening

Looking at In kn

Integrating knowledge

- Driving cars
- Preparing food
- Diagnosing disease
- Finding legal precedents

• ..

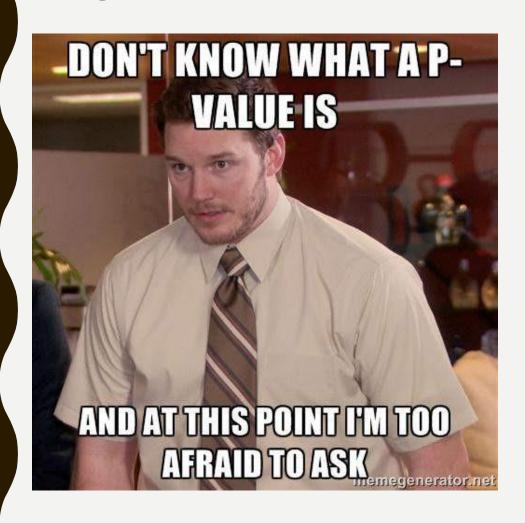
FUTURE JOBS - MICHIO KAKU - PHYSICIST

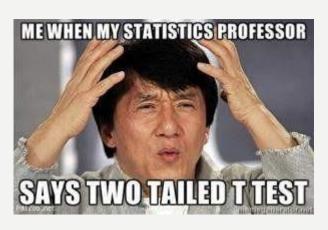
- Those of Artificial intelligence can't do
- Pattern recognition and common sense are big problem of AI
- Repetitive jobs will be wiped off
- Jobs involved in intellectual capitalism will shine like
- Leadership
- Creativity
- Analysis
- Imagination
- Telling joke
- Writing a story, script



HOW TO TAME IT?

REVISE STATISTICS AND PROBABILITY





LEARN ALGORITHM HOW IT WORKS RATHER CONCENTRATING ON OUTPUT







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





CONTRIBUTE YOUR WORK TO OPENSOURCE GitHub





WRITE A BLOG





MAKE YOUR RESUME ATTRACTIVE

BETHANNE STEVENS

DATA ANALYST

INFO

ADDRESS 180 S 4th Street AptelS.

Brooklyn, 11211; United States

(917) 646-8900

SKILLS

Detail Oriented

Programming

Leadership Skills

Data Clean-ups

.... Data Authoring

.... LANGUAGES

....

PROFILE

Experienced and dedicated Data Analyst with several years of experience identifying efficiencies and problem areas within data streams, while communicating needs for projects. Adept at receiving and monitoring data from multiple data streams, including Access, SQL, and Excel data sources, Bringing forth the ability to synthesize quantitative information and interact effectively with colleagues and clients. Proven track record of generating summary documents for senior management for monthly and quarterly audit and compliance reporting.

EMPLOYMENT HISTORY

Data Analyst, High Stream Inc. Oct 2013 - Aug 2019

- Created data modeling standards and procedures.
- Presented data models to business teams for review.
- Performed detailed data validation spanning across several different
- Traveled to various countries assisting with training and data management. Coordinated with external company to monitor and support data integration
- to the company's Online Provider Directory Enterprise System. Worked with complex datasets and trained new hires to work with them as Well

Data Ananlyst, Global Solutions

Sep 2009 - Sep 2013

- Performed in-depth data validation on data from various suppliers across the
- Served as the primary contact for client service teams for several different
- Researched and resolved data discrepancies with troubleshooting teams. Merged data with existing data sets, careful to keep old data sets and
- documentation. Provided tutorials on current data management techniques including
- assisting with analysis and providing technical recommendations on study software.
- Communicated effectively with project management regarding issues and needs for projects.

EDUCATION

Master of Data Science, UCLA

Aug 2008 - Aug 2010

- Graduated in the top of my class.

Bachelor of Computer Sciences, UCLA

Aug 2004 - May 2008

Los Angeles

Los Angeles



HANNAH **PANIZARES**

Environmental Science Researcher

SUMMARY

Supporting our ecosystem and reversing the effects of climate change are the reasons I get up in the morning. International cooperation is necessary, but I believe it begins with uncovering new findings and developing exciting technologies through dedication and innovation.

OUALIFICATIONS

Strong academic performance in environmental biology and natural sciences.

Experienced with professional lab settings, experimenting and reporting.

High grasp of blochemistry. ecosystem structures, and energy conservation methods

CLUBS & ASSOCIATIONS

Dragon Rowing Club 2021-2022

Writing Help Center Writing Guide 2022-2023





REFERENC

ES

- 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-1eb1-482
 9-9276-41f91b5bd75a&w=900&h=600&src=mc
- https://securityledger.com/wp-content/uploads/2016/05/IBM-Watson.jpg

THANK YOU