



TOP MENTOR



INDIA'S FIRST 100% PRACTICAL  
TRAINING INSTITUTE

**WWW.TOPMENTOR.IN**

# BEST JOB IN AMERICA: DATA SCIENTIST!

Glassdoor recently ranked the 50 Best Jobs in America  
3 of the top 5 are in the Data Analytics Field



## 2018 DATA ANALYTICS IN GREATER WASHINGTON

HELLO  
My job title is  
**DATA  
SCIENTIST**

Named hottest job for **3<sup>RD</sup>**  
straight year by GlassDoor

Analytics Manager **ranked 19th**  
Data Engineer **ranked 33rd**  
Data Analyst **ranked 38th**



**55%**

of NVTC members are hiring  
data analytics positions in 2018



**59%**

of NVTC members indicated  
they are pursuing analytics-  
based cybersecurity solutions

**\$446 MILLION**

In Greater Washington 2017 Funding for  
Businesses Using Analytics Products & Services

**54%**

**Data scientists... are in such high demand & low supply in the new era of big data that they are earning almost three times Australia's average salary.**

news.com.au Aug 2015

## DATA SCIENCE AND ANALYTICS: A RISING FORCE IN THE JOB MARKET



Of nearly 27 million postings examined in 2017, there were more than **2,000,000** Data Science and Analytics job listings. Some **224,000** were entry level jobs.

By 2020, DSA openings are projected to grow **15%**

DSA jobs remain open **13%** longer than average

DSA jobs advertise average salaries of **\$80,265** – a **\$8,736** premium over all BA+ jobs

# JOB GROWTH AND DEMAND

NAMED THE  
**TOP JOB  
IN AMERICA**  
FOR 2016

BY  
GLASSDOOR

**SEXIEST JOB  
OF THE  
21ST CENTURY**

BY  
HARVARD  
BUSINESS  
REVIEW

79.7%

OF DATA SCIENTISTS  
REPORT THERE IS A  
**SHORTAGE**  
IN THEIR FIELD

11 %

PROJECTED GROWTH  
FROM 2014 TO 2024

7%

FASTER THAN  
GROWTH FOR  
ALL OCCUPATIONS

## DATA SCIENTIST SUPPLY VS. DEMAND



Because the demand is far outpacing  
the supply of data scientist talent, the  
global shortage continues to grow.

Globally, demand for  
data scientists is pro-  
jected to exceed  
supply by more than

**50%** by 2018.

By 2018, the U.S.  
alone may face a  
**50% to 60% gap**  
between supply and  
requisite demand of  
deep analytical  
talent.



1 in 3

U.S. data scientists are  
foreign born.



4 in 10 (43%)

of companies report their  
lack of appropriate  
analytical skills as  
a key challenge.



1 in 5

organizations has  
changed its approach to  
attracting and retaining  
analytics talent.



As a result of the scarcity of  
data scientists, **63%** of the  
companies are providing  
formal or on-the-job **training**  
inhouse.

**63%**



The report estimates that there  
will be **4 to 5 million jobs** in  
the U.S. requiring data  
analysis skills by 2018

*Large numbers of positions  
will only be filled through  
training or retraining.*

The Researchers project a need  
for

**1.5 million more**  
managers and analysts with  
deep analytical and technical  
skills.

# Why you should become a Data Scientist ?

2,339 data science job listings from companies



US  
\$91,000  
Silicon Valley  
\$110,000



\$140,000 Average data science managerial level salary ranges from \$240,000



DeZyre

Job Trends from Indeed.com

— "Data Scientist"



# WHY SHOULD YOU BECOME DATA SCIENTIST?



## Demand

By 2026, the world will need 11.5M data scientists. This is a perfect time to get on board.



## Influence

In 2018, AI deployments will bring 58% revenue growth worldwide. Help create value!



## Salary

As a data scientist you could earn 20% more than a software engineer.



## Fun

What if your job was to teach AI to do cool stuff?



## Things that matter

Data scientists keep us healthy and safe - all from the comfort of their desks. Modern heroes!



## Make the world easier

AI guys build intelligent systems to help non-AI guys live better.



Do you know that AI plays Atari games better than any human?



Deep learning can make you an artist too. Just try style transfer!



Deep learning helps save endangered North Atlantic whales...



...diagnose diabetic retinopathy



They create smart bots



and fraud detection solutions.

and even predict dangerous seismic events!

# A DATA SCIENTIST IN SINGAPORE

*Based on our 2017 Data Science Salary Report for Singapore, we've collated a profile on the average Data Scientist in Singapore*

The average annual salary for a Data Scientist in Singapore is \$87,498



63% receive a bonus, with the average bonus being \$16,858

34% of Data Scientists surveyed have the ability to write code at production level



The top Big Data platforms used by surveyed Data Scientists are Spark, MongoDB & Hive

Most surveyed find pay rise, progression and new inspiration as the main reasons to seek new roles



Our survey showed the majority of respondents have 10+ years experience in their field



To get a full copy of our Singapore Data Science Salary Report 2017 simply visit [www.bigcloud.io](http://www.bigcloud.io)

# LinkedIn

## Most Promising Jobs of 2019

### The Job Titles

*Based on LinkedIn data, these positions come with high salaries, many job openings and good year-over-year growth.*



Data  
Scientist  
\$130K



Site Reliability  
Engineer  
\$200K

Enterprise  
Account Exec  
\$182K

Product  
Designer  
\$122K

Product  
Owner  
\$101K

### Soft Skills

*Soft Skills never go out of style. And, with the rise of AI, Soft Skills can't be automated.*



Creativity



Persuasion

Collaboration



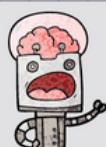
Adaptability

### Hard Skills

*The Skills on this list reflect the impact of our increasingly digital world.*



Cloud Computing



Artificial  
Intelligence

Analytical  
Reasoning



## JOB GROWTH AND DEMAND

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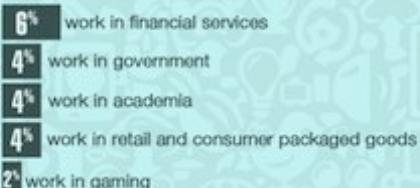
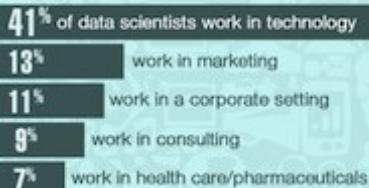
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## CAREER POSSIBILITIES FOR DATA SCIENCE MAJORS

### INDUSTRIES WITH HIGH DEMAND FOR DATA SCIENTISTS



### JOB ROLES

Data scientists wear more than one hat on the job

55.9 %



RESEARCHERS

40.2 %



BUSINESS MANAGEMENT

36.5 %



DEVELOPERS

36.3 %



CREATIVES



A Mentor is a gift along with awesome training from this institute that you must cherish!

- Ruchira S.



One of the rare experiences where I got 10x of what I paid for data science!

- Suraj Kakade



Initially I was reluctant to join this institute. But thank god I joined here and got job in Mphasis!

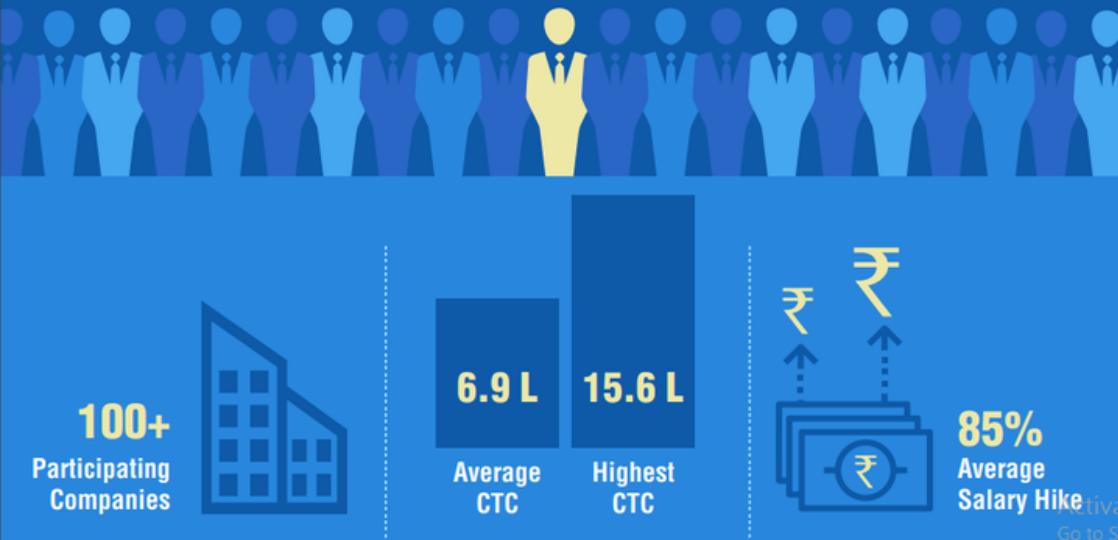
- Mosin Abdul Ansari



Top Mentor made it easy to get the job, Staff is expert and supportive. Recommended.

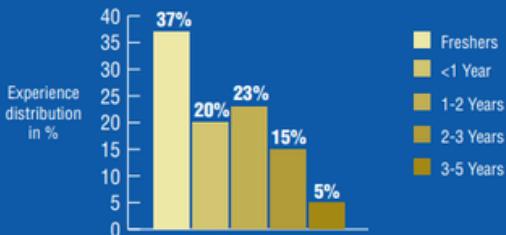
- Rajat Pandhare

# PLACEMENT HIGHLIGHTS

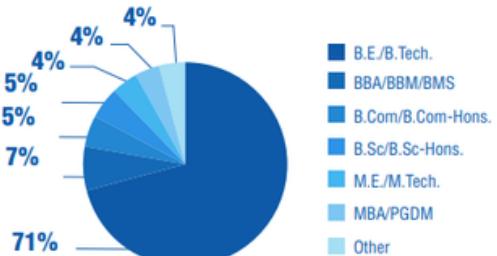


Our students include freshers and experienced professionals from across industries, functions and backgrounds.

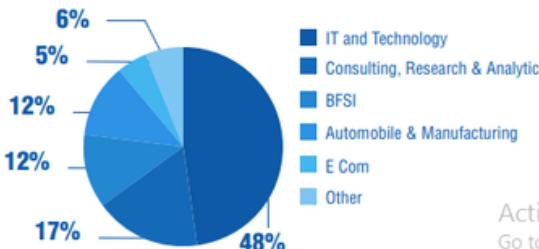
## EXPERIENCE DISTRIBUTION



## EDUCATIONAL BACKGROUND



## INDUSTRY DIVERSITY





## Our Students Currently Work At:

Morgan Stanley



J.P.Morgan  
Asset Management



BIG BAZAAR

accenture



Capgemini





MASTERS IN DATA SCIENCE  
MENTORSHIP PROGRAM

# DEEPEST SYLLABUS CHALLENGE

**PLEASE NOTE: DISCOUNTED RATES FOR THIS  
MONTH ONLY/-**

**(YOU CAN PAY 2K & BOOK YOUR DISCOUNTED SEAT. VALIDITY TO COMPLETE THE  
COURSE 1 YEAR!)**

## **DATA SCIENCE AND DESIGN THINKING CONCEPTS**

- 1. DATA SCIENCE AND IT'S CONCEPT**
- 2. SCOPE OF DATA SCIENCE**
- 3. DATA ENGINEERING**
- 4. DATA STORIES**
- 5. BUSINESS INTELLIGENCE AND IT'S CONCEPTS**
- 6. APPLICATION OF BI IN THE REAL WORLD**
- 7. BASICS OF ARTIFICIAL INTELLIGENCE**
- 8. APPLICATIONS OF AI IN THE REAL WORLD**



## 9. APPLICATIONS OF AI IN THE REAL WORLD

## 10. PROBLEM STATEMENT UNDERSTANDING

## 11. PROBLEM STATEMENT UNDERSTANDING

### ASSIGNMENTS AND 2 REAL CASE PROJECTS ON DESIGN THINKING

## **ANALYTICS**

### 12. WHAT ARE ANALYTICS?

### 13. WHAT ARE THE DIFFERENT TYPES OF ANALYTICS?

### 14. WHAT IS THE SCOPE OF ANALYTICS?

### 15. ROLES OF ANALYTICS IN BUSINESS

### 16. ANALYTICS IN EXCEL – HANDS ON

### ASSIGNMENTS AND 2 REAL INDUSTRIAL CASE STUDIES

## **STATISTICS**

### 17. BASIC STATISTICS - DATA, TYPES OF DATA AND ITS FUNCTIONALITIES

### 18. DESCRIPTIVE STATISTICS – CONCEPTS AND PRACTICAL

### 19. ADVANCE STATISTICS – CONCEPTS AND PRACTICAL

### 20. INFERRENTIAL STATISTICS – CONCEPTS AND PRACTICAL

### 21. STATISTICAL ALGORITHMS – CONCEPTS AND PRACTICAL

### 22. STATISTICS IN EXCEL – HANDS ON



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## ASSIGNMENTS AND 2 REAL INDUSTRIAL STATISTICAL CASE STUDIES

### **PYTHON**

- 23. BASICS OF PYTHON (WITH PRACTICAL HANDS ON)**
- 24. DATA TYPES IN PYTHON (WITH PRACTICAL HANDS ON)**
- 25. OPERATORS IN PYTHON (WITH PRACTICAL HANDS ON)**
- 26. LOOPS OF PYTHON**
- 27. CONTROL FLOW IN PYTHON**
- 28. FUNCTIONS IN PYTHON**
- 29. PYTHON LIBRARIES - PANDAS, NUMPY, AND SKIT-LEARN, MATPLOTLIB, SEABORN, STAS MODULE**
- 30. DATA ANALYSIS USING PANDAS**
- 31. FEATURE ENGINEERING USING PANDAS, NUMPY, MATPLOTLIB AND SEABORN**



## ASSIGNMENTS AND PROJECTS ON PYTHON

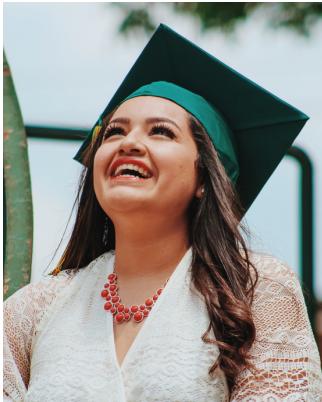


### **MACHINE LEARNING**

- 32. WHAT IS MACHINE LEARNING?**
- 33. TYPES OF MACHINE LEARNING**
- 34. APPLICATION OF MACHINE LEARNING**
- 35. ALGORITHMS OF MACHINE LEARNING**
- 36. MACHINE LEARNING ALGORITHMS USING PYTHON AND EXCEL**



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**37. SUPERVISED MACHINE LEARNING - CONCEPTS AND HANDS ON (REGRESSION AND CLASSIFICATIONS) – LINEAR, POLYNOMIAL, MULTIPLE, KNN, DECISION TREE, RANDOM FOREST**

**38. UNSUPERVISED MACHINE LEARNING – CONCEPTS AND HANDS ON (CLUSTERING AND PCA AND LDA) – K-MEANS AND HIERARCHICAL CLUSTERING**

**39. DATA APPS IN PYTHON USING MACHINE LEARNING.**

### **PROJECTS AND REAL CASE STUDIES ON MACHINE LEARNING**

#### **R PROGRAMMING**

**40. BASICS OF R**

**41. DATA TYPES OF R**

**42. LOOPS OF R**

**43. VISUALIZATION IN R**

**44. MACHINE LEARNING AND DATA ANALYSIS IN R**

**45. REGRESSION IN R – LINEAR, MULTIPLE**

**46. CLASSIFICATION IN R – KNN, LOGISTIC,**

**47. CLUSTERING IN R – K - MEANS AND HIERARCHICAL CLUSTERING**

### **ASSIGNMENTS AND PROJECTS ON R**



## **SQL (STRUCTURED QUERY LANGUAGE)**

- 48. INTRODUCTION TO DATABASE AND ITS CONCEPTS**
- 49. INTRODUCTION TO QUERYING – KNOWING OF SYNTAX**
- 50. SQL JOINS AND OPERATORS**
- 51. TABLES CREATIONS, UPDATE DATES AND AGGREGATIONS AND STRING FUNCTIONS**
- 52. MODIFYING DATABASES WITH SQL**
- 53. DATA WRANGLING AND ANALYSIS WITH SQL.**



## **ASSIGNMENTS AND PROJECTS FOR SQL**

### **TABLEAU**

- 54. INTRODUCTION TO VISUALIZATION**
- 55. CONCEPTS ON DIFFERENT CHARTS AND GRAPHS**
- 56. TABLEAU APPLICATION SETUP AND UNDERSTANDING**
- 57. CONCEPTS OF TABLEAU – FILTERS, JOINS, HIERARCHY, GROUPS, SETS.**
- 58. CHARTS AND DASHBOARDS IN TABLEAU.**
- 59. CALCULATED FIELD AND PARAMETERS IN TABLEAU**
- 60. FORECASTING AND CLUSTERING IN TABLEAU.**
- 61. BUSINESS STORIES IN TABLEAU**

## **ASSIGNMENTS AND PROJECTS FOR TABLEAU**



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## **HIGHLIGHTS:**

- **RESUME PREPARATION AND STRATEGIES TO CRACK DATA SCIENCE INTERVIEWS;**
- **CONCEPTS OF JIRA AND SCRUM IN DATA SCIENCE LIFE CYCLE**
- **FREELANCING APPROACH AND WEBSITES FUTURE PROGRESS IN DATA SCIENCE**



## **SKILLS YOU WILL GAIN THROUGH MENTORSHIP PROGRAM:**

- **DATA ANALYSIS, SQL, TABLEAU, MACHINE LEARNING, STATISTICS, PYTHON, R, EXCEL, PRESENTATION SKILLS, END TO END DATA SCIENCE WORKFLOW, DATA SCIENCE APPLICATIONS, PREDICTIVE ANALYTICS, DECISION MAKING WITH DATA, ALGORITHMS, CARRIER DEVELOPMENT STRATEGIES AND DIFFERENT ROLES (DATA SCIENTIST, MACHINE LEARNING ENGINEER, DATA ANALYST, BUSINESS ANALYST, STATISTICIAN, DATA BASE ADMINISTRATOR)**

