

DATA SCIENCE

PRESENTED BY

SHINY MAJUMDER (20MA10006)



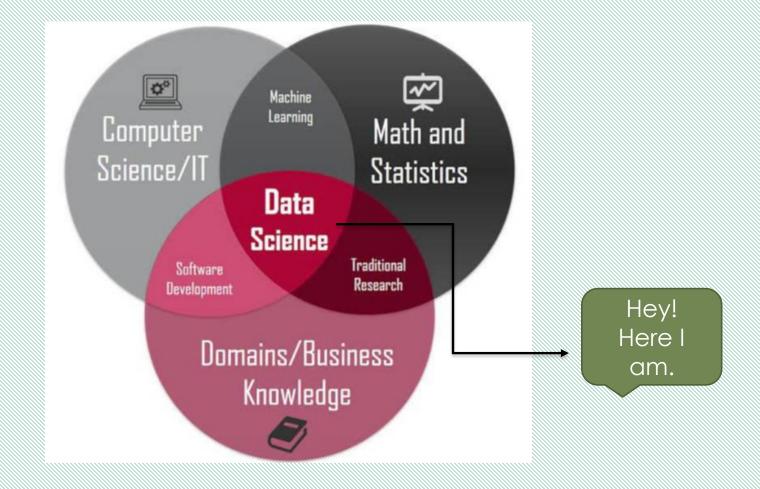
WHAT IS DATA SCIENCE?



- ✓ Data Science is an interdisciplinary field that focuses on extracting knowledge from data sets which are typically huge in amount.
- ✓ Unification of various tools, algorithms, and machine learning techniques.
- ✓ Goal is to discover hidden patterns from the raw data.
- ✓ The field encompasses analysis, preparing data for analysis, and presenting findings to inform high-level decisions in an organization

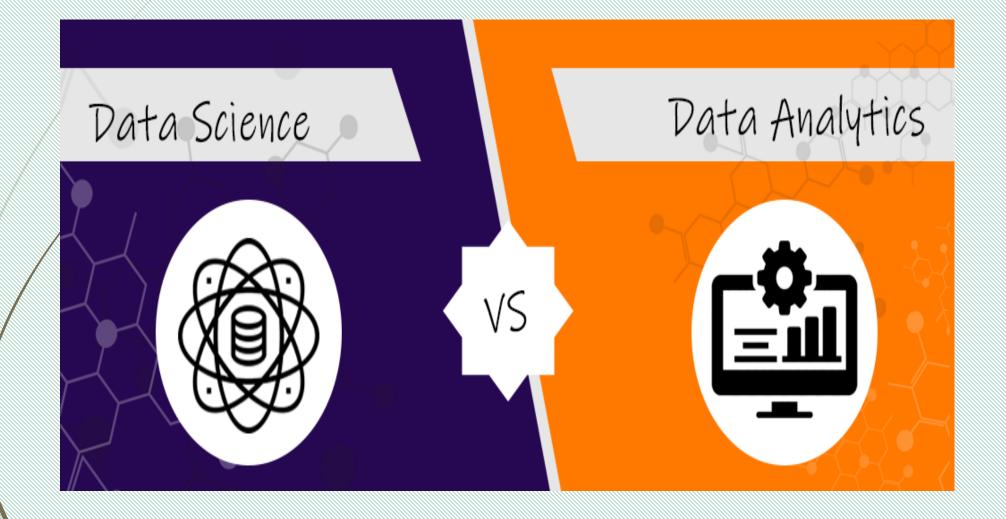
WHERE DOES IT STAND?





CONFUSED?





MISINTERPRETATION RESOLVED





⊘ Computer science

Software development

Big data software tools, including Hadoop and Spark

Algorithm development

OVERLAPPING SKILLS

Basic statistical analysis

Programming languages, including Java, Python, R, and SQL

Data mining

Problem solving

Data storytelling, often to a non-technical audience O Data analysis software

O Data Management Systems (DBMS)

Business intelligence tools, including Microsoft Power BI

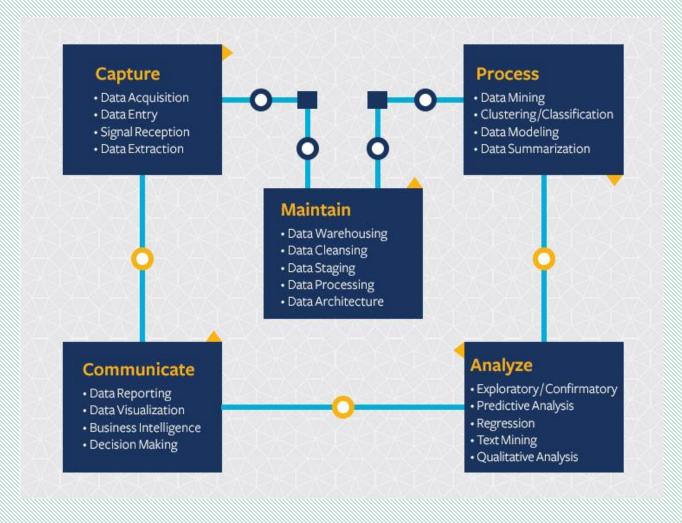
Obata visualization tools, including QlikView, D3.js, and Tableau DATA ANALYTICS SKILLS



LIFE CYCLE



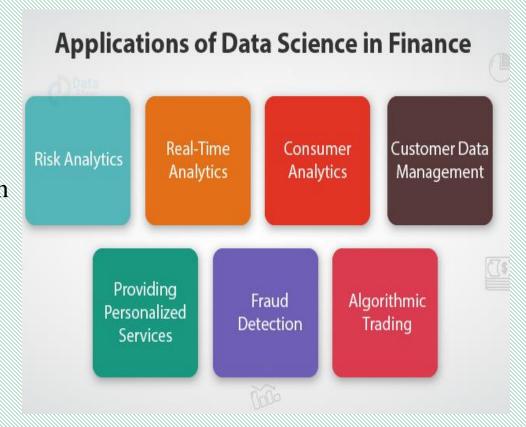
The image represents the five stages of the data science life cycle:



APPLICATIONS

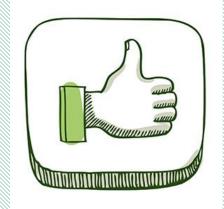


- ✓ Fraud and Risk Detection
- ✓ Healthcare
- ✓ Advanced Image Recognition
- ✓ Speech Recognition
- ✓ Gaming



ADVANTAGES





✓ Multiple Job Options

✓ career opportunities

✓ Business benefits

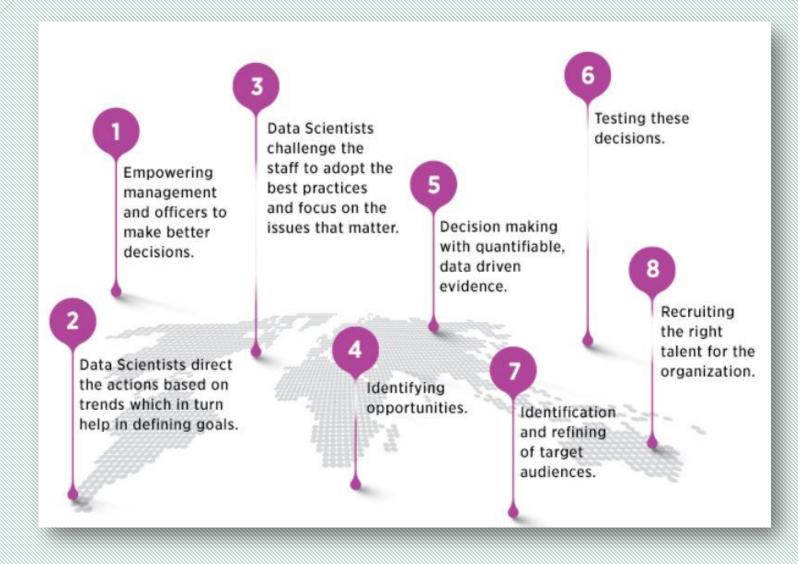
✓ Hiring benefits

✓ Highly Paid jobs

✓ Exploring new trends

ADVANTAGES





DISADVANTAGES





✓ Implementation cost

✓ Data privacy concern

✓ Domain knowledge required

✓ Term is often misleading

✓ Sometimes hard to find data belonging

to a particular field.

FUTURE SCOPE



✓ Evolving everyday



Healthcare unit



E-commerce



Automobile sectors



ACKNOWLEDGMENT



I would like to express my special thanks to our

EDUREKA who gave me an opportunity to do a

presentation on the topic Data Science.

Thank you!