

DATA SCIENCE



IF ANALYTICS IS THE ENGINE THEN DATA IS THE
FUEL OF THE 21ST CENTURY.
-SIMON QUINTON.

LEAP
ACADEMY 4.0

TRIBE -D

Agenda

Let's Know About Data Science.

Our Objective.

Timeline.

Aspects Involved.

Knowledge Required.

Future Scope.





Introduction

DATA SCIENCE-

- Fields using scientific methods, processes algorithms and systems to extract knowledge and ideas from structured and unstructured data.

IT'S NEED-

IT ENABLES ORGANISATIONS TO UNDERSTAND GIGANTIC DATA FROM MULTIPLE SOURCES TO HELP MAKE DATA-DRIVEN DECISIONS.

OBJECTIVE

CONVERTING UNSTRUCTURED DATA INTO STRUCTURED ONE USING MACHINE LEARNING ALGORITHMS, WHICH WILL BUILD A PREDICTED MODEL.

TO IDENTIFY THE PATTERN EMBEDDED IN IT.

Timeline

INVOLVES DATA COLLECTION

DATA IMPORTING,
AND
DATA CLEANING

STAGE I

STAGE II

NORMALIZING

TEST SETS
AND
CLASSIFICATION.

STAGE III

APPLYING
ALGORITHMS.

STAGE IV

DATA MODELLING
AND
ACCURACY CHECK.

STAGE V



Aspects Involved-



DATA COLLECTION.

Procedure of collecting, measuring and analyzing.

DATA CLEANING.

Detecting and correcting corrupt or inaccurate records from a record set, table.

NORMALIZING.

- **The organization of data to appear similar across all records and fields.**



Aspects Involved-

DATA EVALUATION.

- Identification of research aim, presence of a research question, type, **data** collection processes.

DATA MODELLING.

- Creating a visual representation of a whole information system.

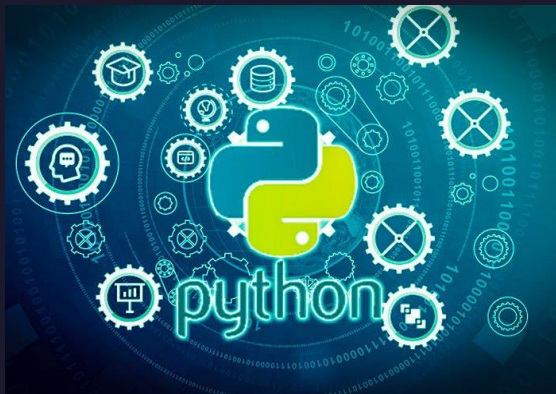
DATA VISUALIZATION.

- Graphical representation of information and data.



KNOWLEDGE REQUIRED-

LANGUAGES-



TECHNOLOGY-



APPLICATIONS-



Data rules the world we live in. Thanks to the growth of Social Media, Smartphones, and Internet of Things, the amount of data at our disposal today is beyond Imagination.

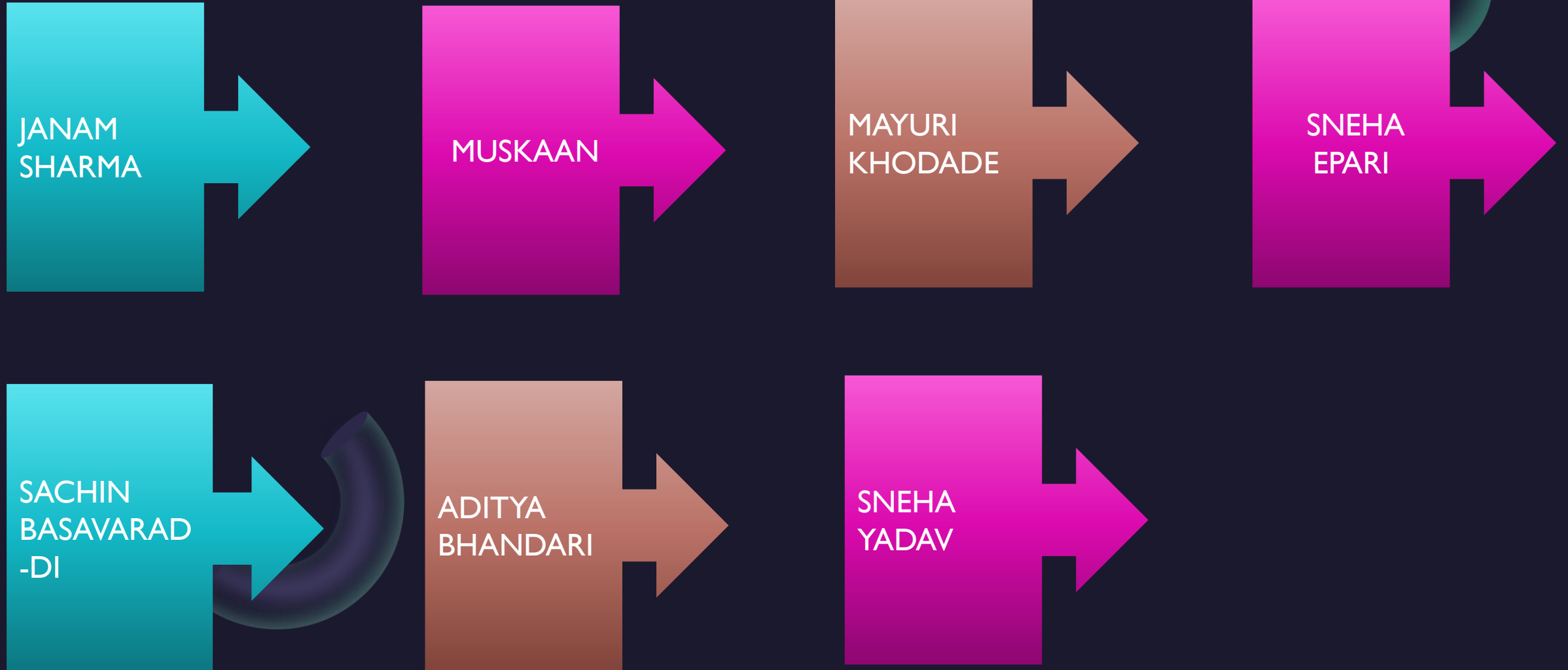
Thus mostly the data is in semi-structured or unstructured format. This is where DATA SCIENCE comes in... With the use of AI and ML, it is being made easy to be dealt with.

FUTURE SCOPE & APPLICATIONS.



Data Science has immensely contributed to Healthcare Sector. It's Algorithms and Applications can be found in Genomic, Drug Development, Medical Image Analyst, Remote Monitoring, Product Monitoring and much more...

Team



Thank You

TRIBE – D

GitHub LINK for BRD-

[https://www.github.com/janam5232/DTribe/
tree/main/BRD_TRIBE-D.pdf](https://www.github.com/janam5232/DTribe/tree/main/BRD_TRIBE-D.pdf)

