

# PYTHON DATA SCIENCE TUTORIAL

Notes by Sharad sir

\*\*\*What is Data Science?\*\*\*

Data Science is about data gathering, analysis and decision-making.

Data Science is about finding patterns in data, through analysis, and make future predictions.

By using Data Science, companies are able to make:

- Better decisions (should we choose A or B)
- Predictive analysis (what will happen next?)
- Pattern discoveries (find pattern, or maybe hidden information in the data)

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\*\*\*Where is Data Science Needed?\*\*\*

Data Science is used in many industries in the world today, e.g. banking, consultancy, healthcare, and manufacturing.

Examples of where Data Science is needed:

- For route planning: To discover the best routes to ship
- To foresee delays for flight/ship/train etc. (through predictive analysis)
- To create promotional offers
- To find the best suited time to deliver goods
- To forecast the next years revenue for a company
- To analyze health benefit of training
- To predict who will win elections

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Data Science can be applied in nearly every part of a business where data is available.

Examples are:

- Consumer goods
- Stock markets
- Industry
- Politics
- Logistic companies
- E-commerce

\*\*\*Where is Data Science Needed?\*\*\*

A Data Scientist requires expertise in several backgrounds:

- Machine Learning
- Statistics
- Programming (Python or R)
- Mathematics
- Databases

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\*\*\*Where to Start?\*\*\*

In this tutorial, we will start by presenting what data is and how data can be analyzed. You will learn how to use statistics and mathematical functions to make predictions.

Best Regards and all the best for you future,.....

Sharad Khare (Datacode with Sharad)