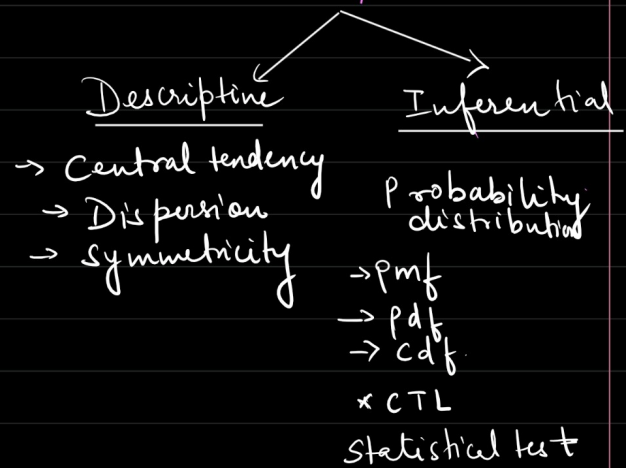


Introduction to Statistics

Statistics / Application



Definition : Statistics is a mathematical science including methods of collecting, organizing and analysing data in such a way that meaningful conclusions can be drawn from them.

Why statistics in data science?

DS/ML → We try to learn pattern in data

* data :→ facts or pieces of information that can be stored, measured and re-accessed.

* data is used to bring insights to increase a company's revenue.

* Collecting, Organising & analysing.

- ↳ Portal
- ↳ manually
- ↳ surveys
- ↳ Internet clicks
- ↳ Experiments
- ↳ directly from customers through rating & reviews.

↳ database
eg. SQL
NoSQL.

↳ finding insights from data using tools like pandas, Numpy, matplotlib, seaborn and so on

Examples → scores made by Virat Kohli in T-20 world cup
[0, 1, 9, 10, ..., 74]

→ Bumrah economy rate

→ Rohit Sharma in T-20.

→ Demand of a product for an e-commerce site.

→ Height of students in the class.

Motivation / uses of statistics

① Weather forecast.

② Sports Analytics → HS, SR, MIN.

③ Election Campaign

④ FMCG | e-commerce.

⑤ medical / genetics / pharmaceutical.