Statistics Fundamentals

Types of Data

- Categorical
- Numeric

of gender(m/F), size (L, m, s)....

--- features are numbers (Int, float)

Types of Statistical Analysis

Measures of Central Tendency

Measures of Dispersion

Measures of Lack of Symmetry

- Skewness
- Kurtosis



Important Terms in Statistics

- Population
- Sample
- Population Parameter
- Sample Statistic
- Variable
- Distribution

Types of Statistical Analysis

V DESCRIPTIVE STATISTICS (what happened?)

DIAGNOSTIC STATS/ANAUTIE

PRESCRIPTIVE STATS

- 2 PREDICTIVE STATISTICS -> ML ALGOS
 (What will happen?)
- (Estimate Something about the population hering a sample Collected from the population

Measures of Central Tendency

eg Average (mean), median numeric features mode eg gender M -7452

D > 548

med for
Categorical features

Measures of Dispersion

Extend of fluctuation in numeric values

- RANGE ! MAX - min

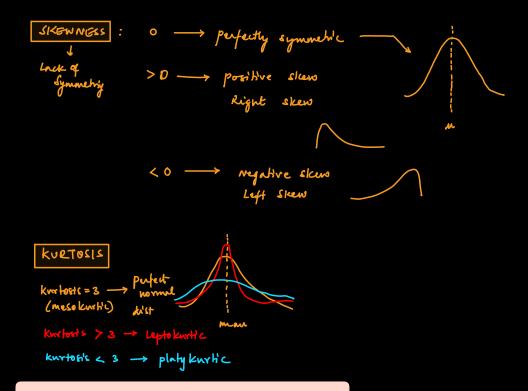
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75 perentile - 25 percentile

- STANDARD DEVIATION = VANIANCE
- VARIANCE

Measures of Lack of Symmetry

- Skewness
- **Kurtosis**



Important Terms in Statistics

Population (people, homeochione,....pr Sample (subset of the paper) size some

Population Parameter

Sample Statistic

· Variable → Entity which takes on liftumt

Distribution

adult wt