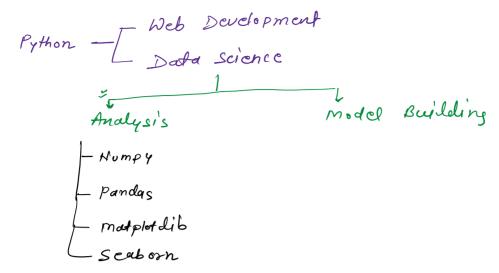
13 August 2025 15:45



Lifecycle

FDA Problem Data Data Data
Understanding Collection Preprocessing Analysis Viz.

EDA: Exploratory Data Analysis -> Understanding Data

1) Univas	rate	Analysis
j Single	✓	
Single	Colui	nn

Name	Asc	Gender

Audys"
Category — unique category
Count

②	Bivariate		
	J	1	

3 multivariate

1 1

>2 Colomn

Correlation

column, bar, pie scatter

Quick Notes Page 1

scatter - max, min, Avs, Sum
Count, Group/intervals countplote), histogram, boxplot Statistics Collect, Organise, Analyze, Interpret Data.

Inferential Descriptive -> Inferring from data -> Describing Data (Conclude) -> Historical Event -> Forecasting -> Election Exit Polls -> Election Results

-> Sample Rata -> Entire Docte

1) Assregate Measure

sum(), maxcs, min(), counf(), average()

@ Central Tendency Measure: exactly or approx into two parts.

median mode mean most repeated = Sout clasa then = Sum (value) Gunt (value) middle value

19,20,20,21,22,20,19,35,37 19,18,20,20,20,21,22,35,37

> Mean ≥ 23.6 Median = 20 = [Data contains Octlier] Mode = 20

1-> Lestes <- 1

=) To select right CTM, we need to look at data distribution.

3 Dispersion Data distribution Measure

10 Range

max, Min



Range = Max - Min

2 Interquartile Range [18R]

IOR = Q3 - Q1

identify Outlier by defining lower Lupper

Lower = Q1 - (1.5 * IQR)

Upper = Q3 + (1.5 * IQR)

La distance of any value from its average.

$$var = (x_1 - \overline{x})^2 + (x_2 - \overline{x})^2 + (x_3 - \overline{x})^2$$

$$= ()^2 \longrightarrow squase unit$$

$$std = \overline{Var}$$

$$= () \longrightarrow sque enit$$

- C / 3411 3191

Hisher Standard Deviation: Data more scattered