① Practical Implementation of Stats {Inferential}

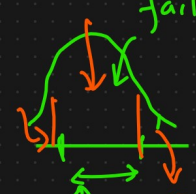
② EDA & Feature Engineering.

③ Interview Stat Question.

t-test

Ages = [ ]

- Null hypothesis — $\boxed{\mu = 30}$
- Alternate Hypothesis — $\boxed{\mu \neq 30}$
- C.I — $\boxed{95\%}$ $\alpha = 0.05$
- Decision Boundary — ——
- test Statics. — —— $\boxed{\text{t-test}}$ python
- Conclusion — Worry



fail to Reject Null hypoth.

Reject the Null hypoth.

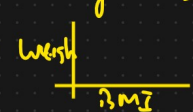
$\boxed{\text{p-value}}$

$p < 0.05$

① EDA : Exploratory DATA ANALYSIS

Scatter plot

Age↑ BMI↑



Aim : To understand data

O/P feature

Age	Weight	Height	BMI
↑	↑	↑	↑ predict

① Missing values → $\boxed{\text{Observation}}$

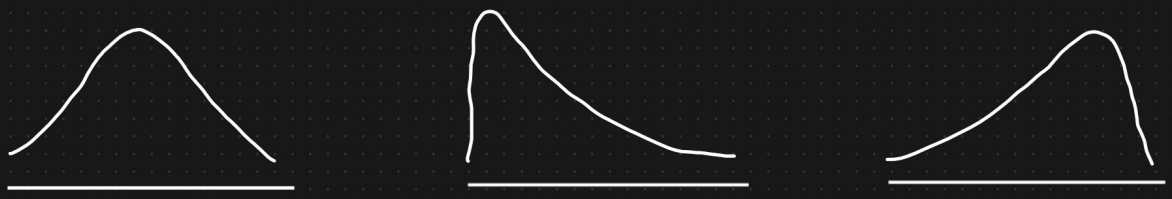
② $\boxed{\text{Age} \mid \text{Weight} \mid \text{BMI}}$ → Numerical
→ Categorical

Univariate → Numerical
→ Categorical

kde plot

⇒ outliers (Box plot) ⇒ Observations

Distributions



SND $\mu = 0, \sigma = 1$

① Bernoulli Distribution

Events

① Outcomes are binary

Tossing a Coin

H or T

$p = P(H) = 0.5$ $q = P(T) = 0.5$

$p = 1 - q$ $q = 1 - p$

Buy / Not

0 or 1

0 or 1

Yes or No

Spam or ham

② Binomial distribution

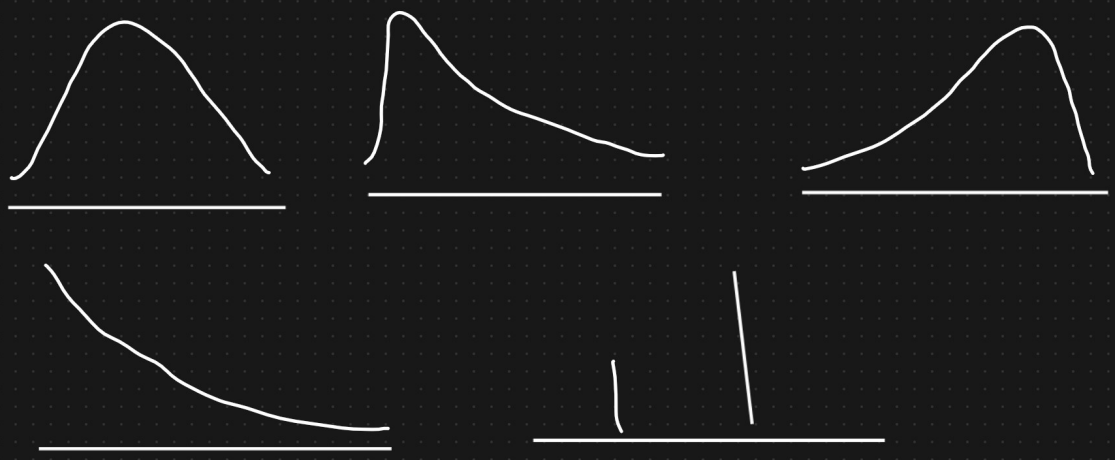
Tossing a coin 5 time

Exp 1 → Binary outcomes

Exp 2 → Binary outcomes

Exp 3

Exp 4

Exp 5

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