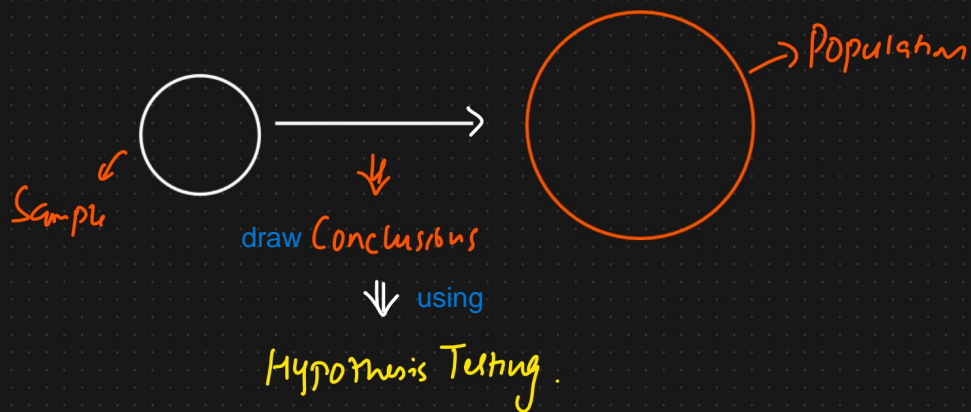


A Hypothesis And Hypothesis Testing Mechanism

Inferential Stats \div Conclusion or Inference



Person \rightarrow Crime \rightarrow Court

Hypothesis Testing Mechanism

① Null Hypothesis (H_0) — ^{e.g.} Person is not guilty

— The assumption you are beginning with

② Alternate Hypothesis (H_1) — ^{e.g.} The person is guilty

— Opposite of Null Hypothesis

③ Experiments \rightarrow Statistical Analysis {p value, significance value}
 \rightarrow Direct Proof (DNA, Finger Test)

④ Accept the Null Hypothesis or Reject the Null Hypothesis

Eg: Colleges at District A states its ^{average} passed percentage of students are 85%. A new college opened in the district and it was found that a sample of student 100 have a pass percentage of 90% with a standard deviation of 4%.

Does this college have a different passed percentage.

Ans) H_0 hypothesis $(H_0) \Rightarrow \mu = 85\%$

Alternate hypothesis $(H_1) \Rightarrow \mu \neq 85\%$