

Inferential Statistics

- Inferential statistics is a branch of statistics that makes inferences/predictions about a population based on a sample from that population.
- **Key Concepts :**
 - **Population and Sample :** Population is the entire group of observations while sample is a subset of that population.
 - **Sampling Methods :** There are different types of sampling methods such as Random sampling, stratified sampling, cluster sampling etc.
 - **Regression Analysis :** Regression is a statistical method used to predict continuous values.
 - **Hypothesis Testing :** There are many types of hypothesis testing such as null hypothesis, Type 1 error, Type 2 error, Alternate Hypothesis etc
 - **Significance Levels :** The thresholds for rejecting null hypothesis.