

Statistics :- Interview Prep

⇒ Be on Time

✓ ⇒ Statistics Concepts / Data Science

✓ ⇒ General Questions

✓ ⇒ Question Bank / recently asked Q [2022-24]

Statistics / Data Science

1. Introduction of Statistics

- ⇒ Descriptive vs Inferential
- ⇒ Types of Data

2. Descriptive Stats

- ⇒ measure of central tendency
- ⇒ Measure of dispersion
- ⇒ Data distribution
- ⇒ Skewness and Kurtosis

3. Probability

- ⇒ Basic Probability concepts
- ⇒ Conditional Probability
- ⇒ Probability Distribution

4. Statistical Inference

- ⇒ Sampling
- ⇒ Central Limit theorem
- ⇒ Hypothesis testing ⇒ t test, z test
chi-square, ANOVA

⇒ Common stats test ↗

⇒ Confidence Interval, α [significance value]
p-value

6. Correlation & Co-variance

⇒ Pearson, Spearman, Multicollinearity

⇒ Linear, Multiple Regression

7. EDA (Exploratory data analysis)

⇒ Data Cleaning

⇒ missing, outliers, duplicates

⇒ Data Visualization

⇒ Importance & diff. graphs

⇒ Univariate, Bivariate, Multivariate

⇒ Data Summarization.

8. Practical Application & tools

⇒ Python, R (numpy, scipy, matplotlib, seaborn)

⇒ Use case in domain*

⇒ Healthcare, finance, banking