

Statistics Interview Questions for Data Science

1. How to calculate range and interquartile range?
2. What is standard deviation?
3. What is left skewed distribution and right skewed distribution?
4. What is p-value in hypothesis testing?
5. What is sampling? How many sampling methods do you know?
6. What is the difference between type I vs type II error?
7. What is the Central Limit Theorem? Explain it. Why is it important?
8. Explain selection bias. Why is it important? How can data management procedures such as missing data handling make it worse?
9. What is an outlier? Explain how you might screen for outliers and what would you do if you found them in your dataset.

Also, explain what an inlier is and how you might screen for them and what would you do if you found them in your dataset.

10. How do you handle missing data? What imputation techniques do you recommend?
11. What is root cause analysis? How to identify a cause vs. a correlation? Give examples.
12. What do you understand by the term Normal Distribution?
13. What is correlation and covariance in statistics?
14. What is p-value?
15. What is Hypothesis Testing?
16. About Z score
17. What is normal distribution and standard normal distribution?