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1. Explain steps to perform in ML projects.
2. Explain any one database connectivity.
3. explain standard score
4. when to use z-test, t-test, proportion test, variance test
5. What is two tail test?
6. When to use one tail test?
7. What is confidence interval?
8. What is error level or alpha level?
9. Explain when to reject NULL hypothesis with example.
10. What is test statistics and critical value ?
11. How test statistics and critical value is helpful to infer data?
12. What is linear regression?
13. What are metrics used in linear regression?
14. What is difference in MSE and MAE..? When to use?
15. How to calculate mean percentage error?
16. What is r-square and adjusted r-square?
17. Explain multi-collinearity
18. What is heteroscadasticity?
19. What is confusion matrix and classification report?
20. How to interpret classification report
21. Explain precision recall and f1 score.
22. What is ACF and PACF
23. What is the difference between correlation and auto-correlation.
24. Explain difference in MAE and MSE. When to use MAE and MSE
25. What is difference in one hot encoding and label encoding
26. Explain need of scaling.
27. What techniques used to handle outliers
28. How to check if data is normally distributed or not?
29. What is the difference in MinMaxscaler, Robust Scaler,
30. MinAbsolute Scaler and Standard scaler?
31. How entropy helps to define root node.
32. Differentiate in entropy and gini index
33. Why to use boosting techniques.
34. What is bagging concept?
35. What is OOB represents?
36. What are ensemble techniques?
37. What is difference in clustering and classification. Explain with example.
38. How to calculate errors in clustering

39. Explain Hierarchical clustering
40. Explain KD-Tree algorithms
41. Explain what are different criteria is used to calculate distance in data
42. Explain SVM
43. How to define stationary data
44. What are test to check if data is stationary or not.
45. Explain technical steps to implement time series
46. What are challenges in K-means
47. Explain K-mean algo
48. When to use DBSCAN algo. Explain the algo.
49. What is Agglomeritive clustering and Divisive approach.
50. What is PCA and how to use it.