Grand Mock Interview Test

(Write the answers in such a way, if interviewer asks the same questions in interview)

Attempt all questions
Each questions carries 5 Marks

1. Introduce Yourself
2. Tell me about your passion for data science? Or What brought you to this field?
3. Loan Eligiblity Prediction. Explain the project end to end?
4. What is the most common problems you face whilst working on data science projects?
5. Use Case – Consider you are working for pen manufacturing company. How would you help sales team with leads using Data analysis? Assume you were given access to data?
6. Data Pre-Processing Steps used.
7. Explain Box and whisker plot.
8. How would you check if the model is suffering from multi Colinearity?
9. Difference between linear & logistic regression?
10. What type of performance metrics would you choose to evaluate the different classification models and why? What are the Evaluation Metric parameters for testing Logistic Regression?
11. What is over fitting & explain various ways to overcome this problem?
12. How is random forest different from Gradient boosting algorithm, given both are tree-based algorithm?
13. What is difference between K-NN and K-Means clustering?
14. Why do we select validation data other than test data?
15. What are vanishing and exploding gradients in neural networks?
16. In brief, how would you perform the task of sentiment analysis?
17. Explain in brief about topic modeling?
18. Explain CNN architecture & how it is most suited for image classification?
19. Write SQL query to find employee with highest salary in each department.
20. Explain various plots & their importance

1. What is difference between loc & iloc in pandas
2. What is meant by Bessel correction in statistics?
3. What is the use of standard deviation
4. What is difference between covariance & correlation
5. Explain central limit theorem
6. What is meant by confidence interval? What is the use of calculating it?
7. What is difference between frequency distribution & probability distribution?
8. What is outlier? What is the problem with outliers? How to calculate outliers in the data?
9. What is the left-skewed distribution and the right-skewed distribution?
10. How to convert normal distribution to standard normal distribution?
11. What is exploratory data analysis?
12. What is univariate, bivariate & multivariate analysis? Explain the difference between it?
13. What are various plots available in data analytics?
14. What is minimum sample size required for analysis and why?
15. What does Inferential Statistics mean?
16. What is hypothesis testing? How to formulate Null & Alternate Hypothesis?
17. How would you describe a 'p-value'?
18. What is difference between Type-I error & Type-II error w.r.to hypothesis testing?
19. What is difference between 1 sample Z test &1 sample t test?
20. What is difference between ANOVA test & Chi-square test?