Full Stack Data Science & AI (Siva Rama Krishna)

Mock Test

Attempt all questions
Each questions carries 5 Marks   **20*05 = 100 Marks**

1. What do you understand by Type I vs Type II error?
2. What is difference between iloc & loc in pandas
3. Differentiate between univariate, bivariate and multivariate analysis.
4. What are the various feature selection methods used to select the right variables? Explain them?
5. What is tf-idf vectorization? What is difference between tf-idf vectorization vs Count vectorization
6. Explain prior probability, likelihood and marginal likelihood in context of naïve Bayes algorithm?
7. What will you do if training results in very low accuracy?
8. Describe the structure of artificial neural networks?
9. How are weights initialized in a network?
10. What is activation function? What is the role of the activation function? What are different activation functions used in AI?
11. Why we use ReLU activation function in hidden layers? What if we use sigmoid?
12. What is back propagation and explain it works
13. What is difference between exploding gradient vs vanishing gradient?
14. Explain difference between gradient descent vs Stochastic Gradient Descent
15. What are the different layers on cnn? What is meant by Convolution operation
16. What is Recursive neural network? What is LSTM? How does an LSTM network work?
17. Explain Database Schema in SQL?
18. What are different keys used in SQL? Tell me the difference between a primary key and a unique key.
19. What is difference between where & having in SQL?
20. What are various joins used in SQL, what is difference between them?