**Data Science Interview Questions: Basic to Technical**

1. What is the difference between supervised and unsupervised learning?
2. How is logistic regression done?
3. Explain the steps in making a decision tree?
4. How do you build a random forest model?
5. How can you avoid overfitting your model?
6. Difference between univariate, bivariate, and multivariate analysis?
7. What are the feature selection methods used to select the right variable?
8. In your choice of language, write a program that prints the number ranging from 1 to 50.
9. You are given a dataset consisting of variables or more than 30 % missing values. How will you deal with them?
10. For the given points, how will you calculate the Euclidean distance in Python?
11. What are dimensionality reduction and its benefits?
12. How will you calculate eigenvalues and eigenvectors of the following 3\*3 matrix?
13. How should you maintain a deployed model?
14. What are recommender systems?
15. How do you find RMSE and MSE in a linear regression model?
16. How can you select k for k-means?
17. What is the significance of the p-value?
18. How can outlier values be treated?
19. How can time series data be declared stationary?
20. How can you calculate accuracy using a confusion matrix?