

# Velocity Corporate Training Center, Pune

## **Logistic Regression Interview Questions**

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1. What is Data Science? List the differences between supervised and unsupervised learning.
2. What is logistic regression?
3. How will you deal with the multiclass classification problem using logistic regression?
4. What is the difference between Linear Regression and Logistic Regression?
5. Why is logistic regression very popular?
6. What is the formula for the logistic regression function?
7. What are the assumptions made in logistic regression?
8. Why is logistic regression called regression and not classification?
9. Explain the general intuition behind logistic regression
10. Explain the significance of the sigmoid function.
11. How does Gradient Descent work in Logistic Regression?
12. Why can't we use Mean Square Error (MSE) as a cost function for logistic regression?
13. What is the Confusion Matrix?
14. What are the false positives and false negatives?
15. What is the true positive rate (TPR) and true negative rate (TNR)?
16. What is the false-positive rate (FPR) and false-negative rate (FNR)?
17. What are precision and recall? Why this is important in model evaluation?
18. What is the purpose of the precision-recall curve?
19. What is f1-score and Explain its importance?
20. In classification problems like logistic regression, classification accuracy alone is not considered a good measure. Why?
21. How can you calculate accuracy using a confusion matrix?
22. What is Sensitivity?
23. What is Specificity?
24. Explain the use of ROC curves and the AUC of a ROC Curve.
25. What is the bias-variance tradeoff in machine learning? Explain Bias and Variance.
26. What is Overfitting?
27. What is Underfitting?
28. How do you deal with overfitting and Underfitting in machine learning?
29. Explain Bias and variance using the bulls-eye diagram
30. What are the advantages and disadvantages of Logistic Regression?