MACHINE LEARNING INTERVIEW QUESTIONS

ASKED IN REAL DATA SCIENCE INTERVIEWS





- Logistic regression
- KNN
- SVM
- Decision Tree
- Random Forest
- Bagging
- Boosting
- LDA & QDA
- Naive Bayes classifier
- Classification Metrics
- Overfitting and underfitting

- Difference between logistic and SVM. (Accenture)
- How to deal with overfitting in Logistic Regression?
 (Delhivery)
- If the accuracy of the model is 95%, is it good?
 (ANZ)
- Does standardization have any impact on the performance of the model in the case of a random forest? (Wells Fargo)
- How to handle imbalanced data in classification?
 Which metric to use in this case? Why is accuracy not a good measure in this case?(FCS Limited)
- Explain the Logistic regression model. (ANZ, Miko.ai, IPSOS)
- Suppose you have 200 variables, will you consider all the variables to build a model? (ANZ)
- Difference between random forest and logistic regression? (ANZ)
- What is a random forest and how it differs from Adaboost? (Meru cabs)
- Explain bagging in Machine learning? (TCS innovation lab)
- Explain F score, precision, recall, ROC curve. (Meru cabs)
- When can you say, KNN model is overfitted?
 (Delhivery)

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- Write the loss function of logistic and linear regression. (Delhivery)
- How is the prediction made in the random forest?
 (FCS Limited)
- How is XGBoost different from gradient boosting?
 (Wells Fargo)
- What will happen if we use MSE in logistic regression? (Delhivery)
- If you have categorical features in your data, then how will you find the Nearest Neighbor using KNN?
 (ANZ)
- Explain the working of the Support Vector Machine Algorithm? (ICICI Lombard, Cognizant)
- What is the kernel trick in SVM? Why is it computationally efficient? (FCS Limited)
- Explain the complete working of the decision tree algorithm. (WNS Global, TCS innovation lab)
- What is a confusion matrix? (ANZ)
- Difference between Linear regression vs logistic regression. (Wells Fargo)
- What is underfitting and overfitting for example?
 (Accenture)
- What are the steps to build a model from scratch?
 (ANZ)
- Why random forests are called random? (FCS
 Limited)

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- Can Ridge or Lasso be used for NLP? (Miko.ai, NLP)
- What is the difference between Bagging and Boosting? (Miko.ai, TCS Innovation Lab)
- Differentiate between SVM and Random Forest?
 (Miko.ai)
- Which is better, Random forest or decision tree?
 (TCS Innovation Lab)
- What is the Ginni index and entropy in the decision tree? (Cognizant)
- What do you mean by deviance in Logistic regression? (ANZ)
- What is a convex function? (Amazon)
- What are the criteria to evaluate a Logistic regression model? (MMA IPSOS)

