FLIP ROBO

MACHINELEARNING

InQ1toQ11,onlyoneoptioniscorrect,choosethecorrectoption:

1. Which of the following methods do we use to find the best fitline for data in Linear Regression?
   A) LeastSquareError   B)MaximumLikelihood
   C)LogarithmicLoss   D)BothAandB

   Ans. d

2. Whichofthefollowingstatementistrueaboutoutliersinlinearregression?
   A) Linearregressionissensitivetooutliers   B)linearregressionisnotsensitivetooutliers
   C)Can'tsay   D)noneofthese

   Ans.a

3. Alinefallsfromlefttorightifaslopeis_____?
   A) Positive   B)Negative
   C)Zero   D)Undefined

   Ans.b

4. Whichof thefollowingwillhavesymmetric relationbetweendependent variableandindependent variable?
   A) Regression   B)Correlation
   C)Bothofthem   D)Noneofthese

   Ans.c

5. Which of the following is the reason for overfitting condition?
   A) Highbiasandhighvariance   B)Lowbiasandlowvariance
   C)Lowbiasandhighvariance   D)noneofthese

   Ans.c

6. If output involves label then that model is called as:
   A) Descriptive model   B)Predictivemodal
   C)Reinforcementlearning   D)Alloftheabove

   Ans.a

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7. Lasso and Ridge regression techniques belong to_____?
   A) Cross validation   B)Removing outliers
   B) SMOTE   D)Regularization

   Ans.d

8. To overcome with imbalance data set which technique canbe used?
   A) Cross validation   B)Regularization
   C)Kernel   D)SMOTE
   Ans.d

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9. TheAUCReceiverOperatorCharacteristic(AUCROC)curveisanevaluationmetricforbinary classification problems. It uses _____to make graph?
   A) TPRandFPR   B)Sensitivityandprecision
   C)SensitivityandSpecificity   D)Recalland precision

   Ans.a

10. InAUCReceiverOperatorCharacteristic(AUCROC)curveforthebettermodelareaunderthe curve should be less.
    A) True   B)False

    Ans.b

11. Pick the feature extraction from below:
    A) Constructionbagofwordsfromaemail
    B) ApplyPCAto projecthighdimensionaldata
    C) Removingstopwords
    D) Forwardselection

    Ans.a

InQ12,morethanoneoptionsarecorrect,chooseallthecorrectoptions:

12. WhichofthefollowingistrueaboutNormalEquationusedtocomputethecoefficientoftheLinear Regression?
    A) We don't have to choose the learning rate.
    B) It becomes slow when number of features is very large.
    C) We need to iterate.
    D) It does not make use of dependent variable.

    Ans.b

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Q13andQ15aresubjectiveanswertypequestions,Answerthembriefly.

13. Explain the term regularization?

   Ans . Before regularization we have to know about overfitting , overfitting model is a model in which

   the model learns the training data too well ,capturing all the fluctuations.

   So in this case regularization is a technique which prevent this overfitting of the model.

14. Which particular algorithms are used for regularization?

   Ans. a) Decision Tree

      b) SVM

      c) Lasso and Ridge

15. Explain the term error present in linear regression equation?

   Ans. In Linear regression model we have some predicted values and the actual values .The
   difference between predicted value and the actual value is called the error.