

Course Name: INTRODUCTION TO MACHINE LEARNING

Max. Marks:60

Duration: 3 Hours

PART A

Answer All Questions. Each question carries 3 marks

1. How do you choose the best split based on the decision tree algorithm?
2. What is meant by ordinary least square estimation?
3. What is the role of the activation function in a neural network?
4. What is the difference between deep learning and machine learning?
5. How do you choose the maximum margin hyperplane?
6. Write a short note on multiclass SVM.
7. What are the advantages of K-fold cross validation?
8. Discuss the strength and weakness of Random forest.

PART B

Answer all questions. Each question carries 6 marks

9.

i. How do machines learn? (3)

ii. What are the steps required for selecting the right machine learning algorithm? (3)

OR

10.

i. How do you find a five number summary? (3)

ii. What are the applications of Principal Component Analysis? (3)

11. The data obtained from a blotting paper testing instrument with two attributes water absorbiveness strength and tearing strength is used to classify whether a blotting paper is good or bad. Four training samples are given here.

X {water absorbiveness, strength}

Y {tearing strength}

Z {Classification}

7 7 GOOD

7 4 GOOD

3 4 BAD

1 4 BAD

Now the factory produces a new blotting paper that pass the test with x value 3 and Y value

7.

Find the classification of this new blotting paper from the data of trained samples using KNN algorithm.

OR

12. Write a note on Bayes theorem and illustrate maximum likelihood method for predicting probabilities in Bayesian learning with an example.

13. How trees and rules "preclassify" partition data into interesting segments? Illustrate with an example

OR

14. Write the difference between simple linear regression and multiple linear regression with examples.

15. How does a Perceptron learn the appropriate weights using delta rule?

OR

16.

i. What are the characteristics of neural networks? (3)

Lords Sample Paper of Machine Drawing

**Thomas Bayly Howell, Thomas Jones
Howell**



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