SNS COLLEGE OF ENGINEERING
Kurumbapalayam (Po), Coimbatore – 641 107

AN AUTONOMOUS INSTITUTION

Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai

Unit II

2 marks
Define Gini Index in Decision Tree.
Compare Bagging and Boosting.
Define Bayes' theorem with formula.
Demonstrate Ensemble Learning in ML and name its three methods.
Advantages and disadvantages of Naive Bayes classifier
Define Bagging.
Define Boosting.
Define Stacking.
What is Gradient Boosting? Write the advantages and disavantages of using it.

14 marks
Analyze Naives Bayes Classifier algorithm.
Inspect the Decision Tree algorithm with an example.
Examine Bayes' Theorem in Machine Learning.
Categorize Ensemble Methods explaining each with advantages and disadvantages.

Unit III

2 marks
Explain Random Variables.
Infer the advantages of Independent Component Analysis?
List four types of Factor analysis.
Explain Marginal probability.
Infer the two applications of Principal Component Analysis Algorithm.
List the methods of Clustering used in Machine Learning.

14 marks
Compare the different Methods of Clustering.
Dissect Expectation maximization algorithm in Machine Learning.
Develop Dimensionality reduction with suitable exmples.
Examine K Means clustering algorithm with illustrative examples
Analyze Principal Component analysis with real time applications.
Explain in detail Factor analysis with suitable diagrams.
Develop Independent Component analysis with examples.
Analyze Linear Discriminant analysis with real world examples.