Q1. [10] Explain Bayes theorem and its components: Prior, Likelihood, Posterior [CO4][L2]
Q2. [7] Differentiate between Maximum Likelihood (ML) and Maximum A Posteriori (MAP) hypotheses with examples [CO4][L2]
Q3. [8] Explain the Naïve Bayes algorithm with steps and an example [CO4][L3]
Q4. [10] Discuss the concept of zero-probability error in Naïve Bayes [CO4][L2]
Q5. [7] What is a Bayes Optimal Classifier? Explain with a scenario [CO4][L3]
Q6. [8] Explain the Gibbs Algorithm and compare it with the Bayes Optimal Classifier [CO4][L2]
Q7. [10] Describe the steps involved in the Gaussian Naïve Bayes algorithm [CO4][L2]
Q8. [8] Analyze different types of Artificial Neural Networks with suitable diagrams [CO4][L2]
Q9. [7] Define activation function. Explain the types of activation functions used in ANN [CO4][L2]
Q10. [10] Explain the Perceptron Learning Algorithm [CO4][L2]
Q11. [8] List the advantages and disadvantages of Artificial Neural Networks [CO4][L1]
Q12. [7] Mention the applications of Artificial Neural Networks [CO4][L2]