School of Engineering
B.TECH Electronics and Communication Engineering in Artificial Intelligence and Machine
Mid Term Examination - May 2024

Duration : 90 Minutes
Max Marks : 50

Sem VI - G2UD601T - Machine Learning

General Instructions
Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary
Approved data hand books are allowed subject to verification by the Invigilator

1) Explain overfitting.   K2 (2)

2) Assess the role of the curse of dimensionality in machine learning   K1 (3)

3) Explain about Gaussian distribution with its probability density function   K2 (4)

4) Discuss about the Classification problem in machine learning techniques.   K2 (6)

5) Recall the following terms used in Perceptron learning algorithm a) The learning rate (3) b) The bias Input   K3 (6)

6) Summarize in detail of impact of noise in classification in reference to supervised learning.   K3 (9)

7) Discuss Relu activaton function with neat graph   K4 (8)

8) Formulate over fitting, Training, Testing and validation sets in machine learning algorithm.   K4 (12)

OR

Analyze the Spectral clustering matrix, and represent the graph laplacian matrix   K4 (12)