

Second Semester ME (Big Data Analytics)

Lab internal test

Date: 26/02/2024

Time: 9 – 10.30 am

Max. 30 marks

Answer all questions

Q. No.	Question	BL-CO-PO-Marks
1	<p>Develop a general perceptron model that takes n bipolar inputs and generates one output.</p> <p>Consider the initial values of weights and bias: $w_1=w_2=b=0$, learning rate $\alpha = 0.3$, and threshold $\theta = 1$.</p> <p>Demonstrate the AND, OR, NAND, and NOR operations using the general perceptron model that you have developed.</p>	3-1-3-10
2	<p>Demonstrate the different approaches used to identify the optimal number of clusters for the given data set.</p> <p>Compare their performance.</p>	4-2-4-10 4-3-4-10