



PRN: 1032210 755

Term End Examination

May/June 2024

CET3006B - Machine Learning

Question Paper ID: 037505

Faculty/School	School of Computer Science and Engineering	Term	Semester VI				
Program	TY B.Tech CSE	Duration	1 Hours 30 Minutes				
Specialization	-	Max. Marks	40				

Section - 1 (8 X 5 Marks) Answer any 8 questions 6/

			Ansv	ver an	<u>y 8</u> qı	iestion	IS				
X	Explain the different steps in feature engineering?							5 marks	CO1	Understanding	
2	What is bias and variance? Explain bias variance trade off with a graph.							5 marks	CO2	Understanding	
3							5 marks	CO3	Understanding		
A	Explain in brief below points related to DBSCAN algorithm with visualization. 1) Core Point 2) Border Point 3) Noise Point 4) Density Edge 5) Density Connected						5 marks	CO3	Analysing		
5	Explain in brief: 1) CURE clustering 2) Spectral clustering						5 marks	CO3	Understanding		
62						5 marks	CO3	Analysing			
7	Number of man-hours and the corresponding productivity (in units) values are given below. Fit a simple linear regression equation Y = mx+b applying the method of least squares.					5 marks	CO3,	Evaluating			
	Man-Hours:	3.6	4.8	7.2	6.9	10.7	6.1	7.9			
	Productivity (in units):	9.3	10.2	11.5	12	18.6	7.2	8.3			
	Write short note on 1. Lasso	regression	2 Rid	ge Res	ressi	on			5 marks	CO3	Understanding



Ŋ	What is Transfer Learning? Explain with block diagram and example.	5 marks	CO4	Applying
10	What are the different crements	5 marks	CO4	Applying
	example.			

END OF QUESTION PAPER