

PRN: 632210846

Term End Examination

Dec 2023

CET3026B - Artificial Intelligence and Machine Learning Techniques

Faculty/School	Engineering and Technology	Term	Semester V
Program	TY B.Tech CSF	Duration	2 Hours 30 Minutes
Specialization		Max. Marks	70

Section - 1 (7 X 10 Marks) Answer any 7 questions

F	aculty/School	Engineering and Technology	Term	Semester 1	V			
P	rogram	TY B.Tech CSF	Duration	2 Hours 30 Minutes				
S	pecialization	Max. Marks 70						
2 3			- 1 (7 X 10 Marks) r <u>any 7</u> questions					
4	What is the A problem.	What is the A* algorithm? Explain various stages of A* search with 8 puzzle problem.						
2	Discuss Reso	olution in predicate logic in brief wi	ith an example.		10 marks	CO2	Analysing	
3	Explain the concept of Bayes theorem with an example. What are the applications of Bayes' theorem in Artificial intelligence?				10 marks	CO3	Applying	
A	Compare Supervised and Unsupervised Learning with their characteristics, applications, and challenges. Use real-world examples to showcase their contributions to problem-solving.			10 marks	COS	Applying		
	applications,	and challenges. Use real-world exa			To marks	0.5	търгушу	
8	applications, contributions Describe Line	and challenges. Use real-world exa	eps involved in training	neir			Understandi	
	applications, a contributions Describe Line regression modern and the contributions	and challenges. Use real-world exacto problem-solving. ear Regression and discuss the stepdel, including the role of the cost for a Support Vector Machine can be unable data. What is the significance	eps involved in training function.	ng a linear		CO4	Understandi	
8	applications, a contributions Describe Line regression modern and linearly separate hyperplane in	and challenges. Use real-world exacto problem-solving. ear Regression and discuss the stepdel, including the role of the cost for a Support Vector Machine can be unable data. What is the significance	eps involved in training function. used for the classificate of optimal separating	ng a linear	10 marks	CO4	Understandi	
8	applications, a contributions Describe Line regression modern and the second s	and challenges. Use real-world exacto problem-solving. ear Regression and discuss the stepdel, including the role of the cost for a Support Vector Machine can be unable data. What is the significance SVM?	eps involved in training function. used for the classificate of optimal separating for the performance.	ng a linear	10 marks 10 marks	CO4	Applying	
8	applications, a contributions Describe Line regression modern and Explain how a linearly separate hyperplane in Explain difference Define Neural functioning.	and challenges. Use real-world exacto problem-solving. ear Regression and discuss the stepdel, including the role of the cost for a Support Vector Machine can be usable data. What is the significance SVM? Tent methods for measuring classificance in Networks and provide their details of the significance in the significance	eps involved in training function. used for the classificate of optimal separating for the performance. led architecture and	ng a linear	10 marks 10 marks 10 marks	CO4 CO4 CO5	Understandi	

END OF QUESTION PAPER