Reg. No.

G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI - 628 502.



UG DEGREE END SEMESTER EXAMINATIONS - NOVEMBER 2024.

(For those admitted in June 2021 and later)

PROGRAMME AND BRANCH: B.COM., BUSINESS ANALYTICS

SEM	CAT	EGORY	COMPONENT	COURSE CODE	COURSE TITLE		
IV	PART - III		ELECTIVE GENERIC - 2	U21BA4A2	MACHINE LEARNING		
Date & Session: 16/11/2024 / ANTime : 3 hoursMaximum: 75 Ma							
Course Outcome	Bloom's K-level	Q. No.	<u>SECTION – A (</u> 10 X 1 = 10 Marks) Answer <u>ALL</u> Questions.				
CO1	K1	1.	Which of the following is NOT a key aspect of machine learning?a) Data acquisitionb) Model selectionc) Feature engineeringd) Human intuition				
CO1	K2	2.	Which of the following is NOT an application of machine learning?a) Fraud detectionb) Weather predictionc) Image recognitiond) Cooking recipes				
CO2	K1	3.	Which algorithm is most suitable for binary classification problems?a) Linear regressionb) Logistic regressionc) K-meansd) Principal component analysis				
CO2	K2	4.	Which of the following is NOT a common application of supervised learning?a) Spam detectionb) Sentiment analysisc) Market segmentationd) Image classification				
CO3	K1	5.	Which of the following algorithms is commonly used for partitional clustering?a) K-meansb) Agglomerative clusteringc) Decision treesd) Naive Bayes				
CO3	K2	6.	Which of the following is NOT an application of unsupervised learning?a) Customer segmentationb) Image classificationc) Anomaly detectiond) Market basket analysis				
CO4	K1	7.	Which of the following is a key terminology used in reinforcement learning?a) Target variableb) Rewardc) Labeld) Hyperparameter				
CO4	К2	8.	Which of the following is a widely used model for reinforcement learning?a) Deep Q-Networks (DQN)b) Logistic regressionc) K-means clusteringd) Random forests				
CO5	K1	9.	Which of the following is a type of semi-supervised learning algorithm?a) K-meansb) Self-trainingc) Logistic regressiond) Q-learning				
CO5	K2	10.	Which of the following is NOT a semi-supervised learning algorithm?a) Self-trainingb) Q-learningc) Graph-based learningd) Low-density separation				

Course Outcome	Bloom's K-level	Q. No.	<u>SECTION – B (</u> 5 X 5 = 25 Marks) Answer <u>ALL Q</u> uestions choosing either (a) or (b)
CO1	K3	11a.	Definition Of Machine Learning? (OR)
CO1	K3	11b.	Explain about the key aspects of Machine Learning?
CO2	K3	12a.	Explain about the Logistic regression? (OR)
CO2	K3	12b.	Discuss about the applications of supervised learning?
CO3	K4	13a.	Definition of Unsupervised Learning? (OR)
CO3	K4	13b.	Discuss about partitional clustering and Hierarchical clustering?
CO4	K4	14a.	Explain about the terminologies used in Reinforcement learning? (OR)
CO4	K4	14b.	Discuss about the types of Reinforcement learning?
CO5	K5	15a.	Definition of semi-supervised Learning? (OR)
CO5	K5	15b.	Explain about the assumptions followed semi-supervised Learning?

Course Outcome	Bloom's K-level	Q. No.	<u>SECTION – C (</u> 5 X 8 = 40 Marks) Answer <u>ALL Q</u> uestions choosing either (a) or (b)
CO1	K3	16a.	Brief about the applications of Machine Learning ? (OR)
CO1	K3	16b.	Compare between the Machine Learning (ML) and Artificial Intelligence(AI)?
CO2	K4	17a.	Discuss about K-Nearest Neighbour algorithm (KNN)? (OR)
CO2	K4	17b.	Brief about Supervised Learning and what are the steps involved in SL?
CO3	K4	18a.	Compare between the Supervised Learning and Unsupervised learning? (OR)
CO3	K4	18b.	Discuss about applications of Unsupervised learning and explain their advantages and disadvantages?
CO4	K5	19a.	Brief about the Reinforcement Learning and explain their work flow? (OR)
CO4	K5	19b.	Discuss about applications of Reinforcement learning and explain their Pros and Cons'?
CO5	K5	20a.	Brief about the Semi-Supervised Learning and explain their work flow? (OR)
CO5	K5	20b.	Discuss about Real time applications of Semi-Supervised Learning and their Pros and Cons?