Duration : 180 Minutes Max Marks : 100

School of University Polytechnic

Diploma in Computer Science and Engineering SUMMER/BACKLOG Semester End Examination - Jul 2024

Sem IV - N1DC401B - Machine Learning and Its Application

<u>General Instructions</u> 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)	Define numpy in python with example	K1(2)
2)	Explain the role of reward functions in reinforcement learning.	K2(4)
3)	Explain the concept of feature extraction in machine learning.	K2(6)
4)	Illustrate the concepts of clustering approaches. How it differ from classification.	K3(9)
5)	Illustrate the applications of clustering and identify advantages and disadvantages of clustering algorithm.	K3(9)
6)	Examine the steps in Linear Regression with example.	K5(10)
7)	Analyze the concept of reinforcement learning and its distinction from supervised and unsupervised learning methods.	K4(12)
8)	What is data cleaning. Explain the list of data cleaning tasks in pandas.	K5(15)
9)	What is Pandas and Eplain the problems does it solve in the realm of data analysis and manipulation.	K5(15)
10)	Discuss the Data handling techniques in machine learning.	K6(18)