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School of University Polytechnic

Diploma in Computer Science and Engineering

Mid Term Examination - May 2024

Duration : 90 Minutes

Max Marks : 50

Sem IV - N1DC401B - Machine Learning and Its ApplicationGeneral Instructions*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) Explain the steps required for selecting the right machine learning algorithm. K2 (2)
- 2) Define the feature learning and write its importance. K1 (3)
- 3) Briefly explain the different types of machine learning. K2 (4)
- 4) Explain various learning techniques involved in unsupervised learning. K2 (6)
- 5) Illustrate how unsupervised Learning Works. K3 (6)
- 6) Illustrate the different types of loop in python. K3 (9)
- 7) Explain the process of data normalization and its significance in machine learning. K4 (8)

- 8) Discuss the concept of feature engineering and its importance in improving the performance of machine learning models. Provide examples of feature engineering techniques. K4 (12)

OR

- Explain the issues and applications of machine learning. K4 (12)