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School of Computing Science and Engineering

BCA with Industry Oriented Specialization in Artificial Intelligence and Machine Learning
Semester End Examination - Nov 2023

Duration : 180 Minutes
Max Marks : 100

Sem V - E1UB501B - Machine learning for Data Science

General 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) What is k in k-means algorithm? How it is selected? K1 (2)
- 2) Explain logistic regression with suitable example. K2 (4)
- 3) Explain feature selection in details. K2 (6)
- 4) Describe how unlabeled dataset is used in machine learning using a suitable example. K3 (9)
- 5) Explain Steps to build a basic Naive Bayes Model. K3 (9)
- 6) Explain SVM classifier with suitable example. K5 (10)
- 7) Differentiate locally connected layers, tiled convolution and standard convolution with suitable examples and diagram. K4 (12)
- 8) Explain various learning techniques involved in supervised learning? K5 (15)
- 9) Assess the difference between linear models and neural networks. K5 (15)
- 10) What are some common problems that occur during data processing? How can they be fixed? Which methods do you think would work best when dealing with outlier values and Why? K6 (18)