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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)**B.Tech III Year I Semester Regular Examinations March-2023****INTRODUCTION TO MACHINE LEARNING**
CSE(Artificial Intelligence and Machine Learning)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

1 Explain about Supervised Learning techniques. CO3 L2 12M

OR

2 List the Machine Learning Algorithm in testing near to excepted. CO1 L1 12M

UNIT-II

3 Explain about machine learning classification and its usage. CO1 L2 12M

OR

4 Explain about Linear Regression and its types. CO2 L3 12M

UNIT-III

5 a State and explain implementation of multilayer perceptron. CO4 L1 6M

b What are the advantages of multilayer perceptron? CO4 L1 6M

OR

6 Explain Bayesian logistic regression in detail. CO4 L2 12M

UNIT-IV

7 Write are the classifications in Bayesian decision theory, State with example. CO4 L3 12M

OR

8 Explain various model selection procedures. CO4 L2 12M

UNIT-V

9 a List the features of multivariate normal distribution. CO6 L1 6M

b Write the applications of multivariate normal distribution. CO4 L3 6M

OR

10 Explain multivariate normal distribution. Explain its features and applications. CO5 L2 12M

*** END ***

KJ Somaiya Institute of Engineering & Technology - PUNE
(AUTONOMOUS)

B.Tech III Year I Semester Regular Examinations March-2023

INTRODUCTION TO MACHINE LEARNING
(Self-Adaptive Intelligence and Machine Learning)

Max. Marks: 80

Time: 3 hours

(Answer all Five Units 2 x 12 = 60 Marks)

UNIT-I

CO2 13 12M

1. Explain about supervised learning techniques

OR

CO1 14 12M

2. List the Machine Learning Algorithms based on supervised

UNIT-II

CO1 13 12M

3. Explain about machine learning classification and its usage

OR

CO2 13 12M

4. Explain about linear regression and its types

UNIT-III

CO4 11 6M

5. a) State and explain the requirements of multivariate regression

CO4 11 6M

b) What are the advantages of ridge regression?

OR

CO1 13 12M

6. Explain Decision Logistic regression in detail

UNIT-IV

CO4 13 12M

7. Write the classification in Bayesian decision theory, state with example

OR

CO4 13 12M

8. Explain various model selection procedures

UNIT-V

CO6 11 6M

9. a) List the features of multivariate normal distribution

CO4 13 6M

b) Write the specifications of multivariate normal distribution

OR

CO5 13 12M

10. Explain multivariate normal distribution. Explain its features and application