

Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

M.Tech I Year I Semester Regular Examinations January 2020

MACHINE LEARNING

(Computer Science & Engineering)

Time: 3 hours

Max. Marks: 60

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

UNIT-I

- 1 a Write a detail note on naïve bayes linear models. **6M**
b What is the significance of classification? Explain their types. **6M**

OR

- 2 a Explain in detail distance based methods. **6M**
b Define Multiclass Classification with a neat diagram. **6M**

UNIT-II

- 3 a Explain in detail the concept of Kernel and K- Means. **6M**
b Explain Latent factor model and its uses. **6M**

OR

- 4 a Explain generative models in detail. **6M**
b Explain PCA and its process with their applications. **6M**

UNIT-III

- 5 a Discuss Learning Vector Quantization algorithm with neat sketch. **6M**
b What is Random forest? Explain with example. **6M**

OR

- 6 a What is Boosting? Discuss with neat relevant example. **6M**
b Define Model Selection & Discuss in detail. **6M**

UNIT-IV

- 7 a How does inference in graphic model occurs explain the technology? **6M**
b Discuss the feature representation learning. **6M**

OR

- 8 a What is deep learning discuss its importance? **6M**
b How to estimate sparse modeling? **6M**

UNIT-V

- 9 a Explain different networking and communication model in IoT. **6M**
b Define learning techniques & explain in detail. **6M**

OR

- 10 a Give a detail note on Classification methods for IOT with neat sketch. **6M**
b Discuss the recent trends in various learning techniques of machine learning. **6M**

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