



SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF COMPUTER SCIENCE AND DESIGN

COURSE NAME : MACHINE LEARNING

III YEAR /V SEMESTER

Unit 2 - SUPERVISED LEARNING

Topic 2: Linear Models for Classification



Linear Models for Classification



- **Classification:** Classification is a process of finding a function which helps in dividing the dataset into classes based on different parameters.
- In Classification, a computer program is trained on the training dataset and based on that training, it categorizes the data into different classes.

07/07/2024

ML ALGORITHMS / PPT3622-MACHINE LEARNING / EVATHMIGHA R K/CSD/SNSCE

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Linear Models for Classification



- **Example:** The best example to understand the Classification problem is Email Spam Detection.
- The model is trained on the basis of millions of emails on different parameters, and whenever it receives a new email, it identifies whether the email is spam or not.
- If the email is spam, then it is moved to the Spam folder.
 - o Logistic Regression
 - o K-Nearest Neighbours
 - o Support Vector Machines
 - o Kernel SVM

