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 1:Linear models for regression

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1. Linear Regression

- Used for predictive analysis.
- Predictive analysis defines prediction of something.
- Linear regression makes predictions for continuous numbers such as salary, age, etc.
- It shows the linear relationship between the dependent and independent variables, and shows how the dependent variable(y) changes according to the independent variable (x).
- It tries to best fit a line between the dependent and independent variables, and this best fit line is known as the regression line.

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1. Linear Regression

- The dependent variable may be called an outcome variable, criterion variable, endogenous variable, or regressand.

- The independent variables can be called exogenous variables, predictor variables, or regressors.

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1. Linear Regression