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 1 - INTRODUCTION

Topic 3 : Supervised Learning Categories - Advantages and Disadvantages of Supervised Learning- Applications of Supervised Learning

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Supervised Machine Learning

Categories of Supervised Machine Learning:

Supervised machine learning can be classified into **two types** of problems, which are given below:

- **Classification**
- **Regression**

Supervised Learning Categories

a) Classification

- Classification algorithms are used **to solve the classification problems** in which the **output variable is categorical,** such as "Yes" or No, Male or Female, Red or Blue, etc.
- The classification algorithms **predict the categories** present in the dataset.
- Some real-world examples of classification algorithms are **Spam Detection, Email filtering,** etc.

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Supervised Learning Categories