Machine Learning

St. Joseph's University, Bengaluru

Supervised Machine Learning Techniques

What is Supervised ML

Supervised Machine Learning is a type of machine learning in which the algorithm learns to predict the output variable based on input data and labeled training data.

Types of Supervised ML

The two main types of supervised ML are:

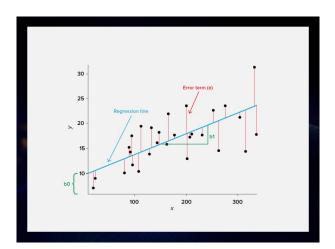
- 1. Regression: Output variable is continous.
- 2. Classification: Output variable is categorical.

Regression

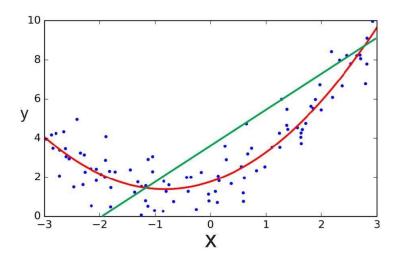
Regression is a type of Supervised Learning where the output variable is continuous.

It is used to predict a value based on input features, such as predicting the price of a house based on its size, location, etc.

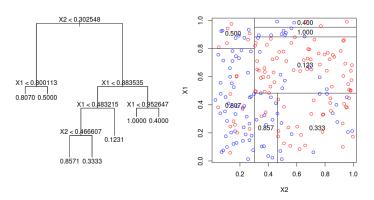
Linear Regression



Polynomial Regression



Decision Trees

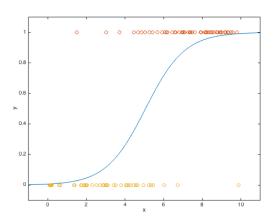


Classification

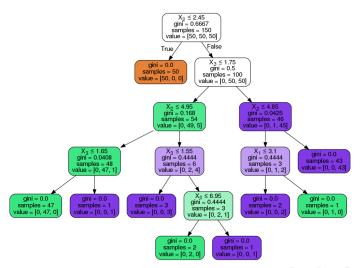
Classification is a type of Supervised Learning where the output variable is categorical.

It is used to classify input data into different categories, such as identifying whether an email is spam or not.

Logistic Regression



Decision Tree



Support Vector Machines

