

Ans. Logistic Regression is a statistical model used for binary classification tasks. It predicts the probability that a given input belongs to one of two possible categories. Unlike linear regression, logistic regression applies a logistic function to the weighted sum of input features producing values between 0 and 1. These values represent probabilities and a threshold is applied to classify instances.

Ans. Support Vector Machines (SVM) is a supervised machine learning algorithm used for classification & regression tasks. It works by finding the optimal hyperplane that separates data points into different classes with the largest margin. SVM aims to maximise the margin between the classes while minimizing classification errors.