

Supervised learning is a type of machine learning where the model is trained on a labeled dataset. In this method, each input data is paired with the correct output, and the model learns to map inputs to the desired outputs by minimizing errors. Once trained, the model can make predictions on new, unseen data by applying the learned mapping. Common algorithms used in supervised learning include linear regression, decision trees, and support vector machines, which are widely used for tasks like classification and regression.