Introduction to Supervised Learning

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What is Supervised Learning?

Supervised Learning

Supervised learning is an important aspect of Data Science. Supervised learning is the machine learning task of inferring a function from labelled training data. The training data consists of a set of training examples

Classification

a classification algorithm will be given data points with an assigned category. The job of a classification algorithm is to then take an input value and assign it a class, or category, that it fits into based on the training data provided. (Toward Data Science)

The Algorithm

1. Linear Classifiers
2. Support Vector Machines
3. Decision Trees
4. K-Nearest Neighbor
5. Random Forest

Regression

Regression is a predictive statistical process where the model attempts to find the important relationship between dependent and independent variables. The goal of a regression algorithm is to predict a continuous number such as sales, income, and test scores. (Toward Data Science)

Different type of Regression

1. Linear Regression
2. Logistic Regression
3. Polynomial Regression

Assessment

1. Learn one of the supervised learning algorithm. Try to understand the concept, flowchart, and the implementation.

2. Try to use scikit-learn, pandas, numpy library in python.

3. Try to use google colab.