

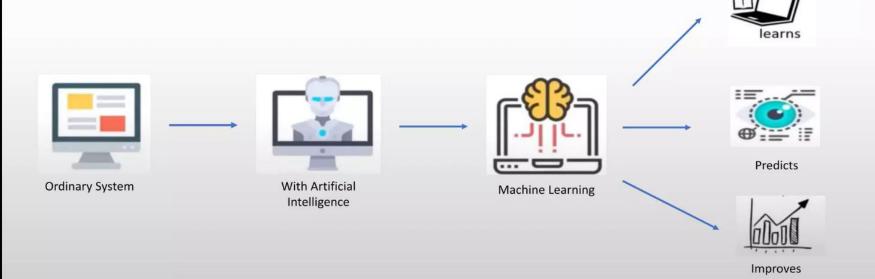
- 18th February, 2023.
- 9:00 AM
- EEE Lecture Hall 3 Upstairs

Overview

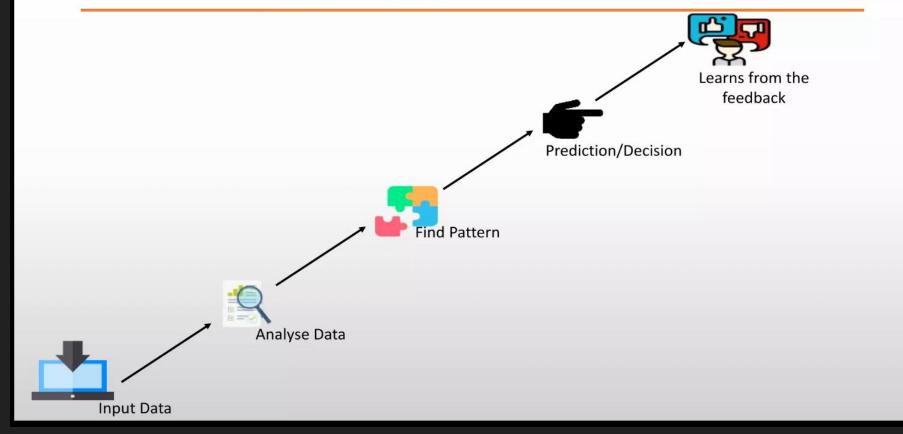
- 1. What Is Machine Learning?
- 2. Machine Learning Process
- 3. Types Of Machine Learning
- 4. Machine Learning Algorithms

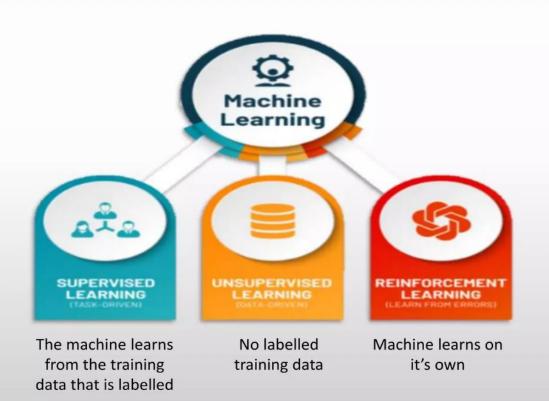
What is Machine Learning?

Machine Learning is an application of Artificial Intelligence (AI) that provides system the ability to automatically learn and improve from experience without being explicitly programmed

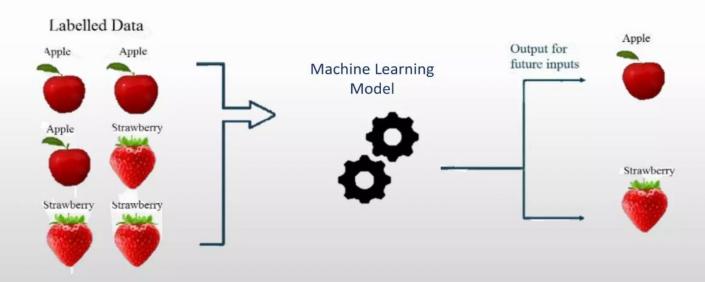


Machine Learning Process

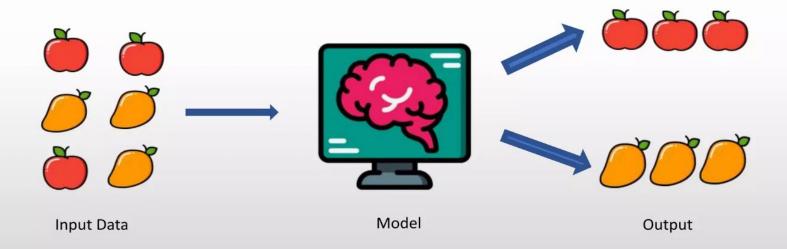




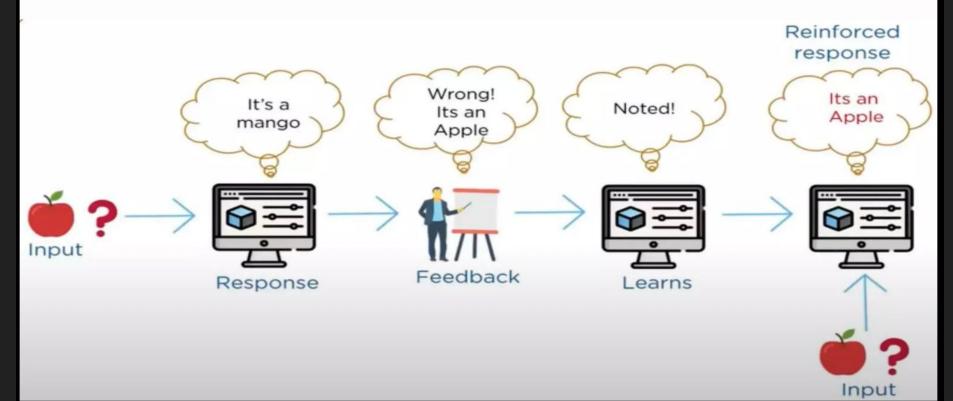
1. Supervised Machine Learning



2.Unsupervised Machine Learning



2. Reinforcemet Machine Learning





Classification

Used when the output is categorical like 'YES' or 'NO'



Clustering

Used when the data needs to be organized to find patterns in the case of 'product recommendation'



Algorithms used

- Decision Tree
- Naïve Bayes
- Random Forest
- Logistic regression
- KNN



Regression

Used when a value needs to be predicted like the 'stock prices'

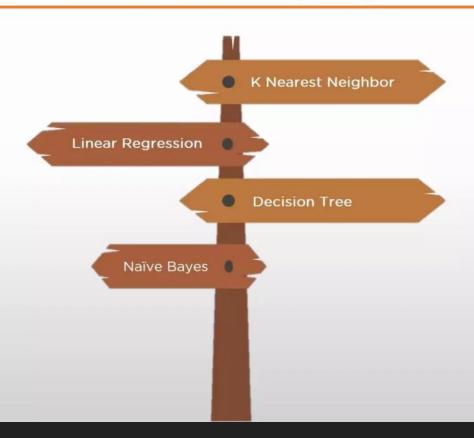
Algorithms used

Linear Regression

Algorithms used

K Means

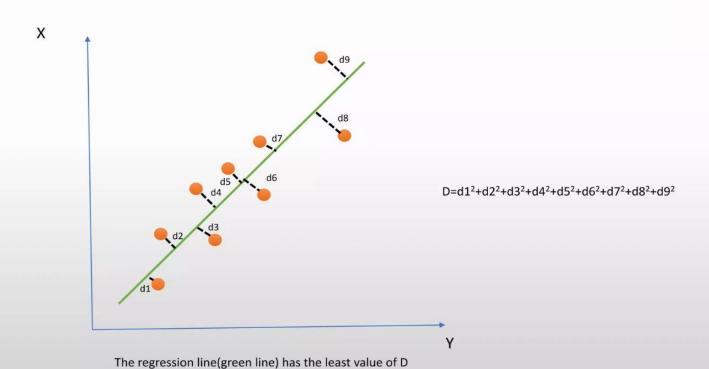
Machine Learning Algorithm



Linear Regression

Linear regression attempts to model the relationship between two variables by fitting a linear equation to observed data. One variable is considered to be an explanatory variable, and the other is considered to be a dependent variable. For example, a modeler might want to relate the weights of individuals to their heights using a linear regression model.

Linear Regression





AZURE MACHINE LEARNING STUDIO