

Machine Learning is the brains behind AI Technologies, and AI Technologies do the actions

Machine Learning use cases :

- Sales forecasting
- Customer Segmentation
- Insurance claim fraud detection
- Hedge fund classification

Machine Learning Lingo

Feature -> Terms Variable, column, attribute and field
Instance -> Terms Row, observation, data point, value and case
Target -> Terms Predictant and dependent variable
Data -> Terms Predicate

Type of Machine Learning Algorithms

- Deep Learning
- Ensemble
- Neural Networks
- Regression
- Decision Tree
- Bayesian
- Regularization
- Rule System
- Dimension Reduction
- Instance Based
- Clustering

In Regression Algorithm, you will learn

- Linear Regression
- Logistic Regression

In Bayesian Algorithm, you will learn

- Naive Bayes (Gaussian, Bernouli and Multinomial)

In Instance Based Algorithm, you will learn

-K-Nearest Neighbor

In Clustering Algorithm, you will learn

-K-Means Clustering
-Hierarchical Clustering
-Density Based Spatial Clustering of Application with Noise

Use random sampling to generate random samples & then break the data into test and training sets, which are 2/3 for training sets and the rest for testing sets