# Machine Learning Specific

* A computer program which learns from experience is called a machine learning program or simply a learning program .
* **Classification of Machine Learning :**
  1. Supervised Learning
  2. Unsupervised Learning
  3. Reinforcement Learning
  4. Semi-Supervised Learning
* **Machine Learning Model Development Steps :**
  1. Collecting Data
  2. Preparing the Data ( Extract , Load , Transform )
  3. Choosing a Model
  4. Training the Model
  5. Evaluating the Model
  6. Parameter Tuning
  7. Making Predictions
* For this project I have used Supervised Learning type of Machine Learning.
* **Types of Naïve Bayes Classifier :**
  1. Optimal Naïve Bayes
  2. Gaussian Naïve Bayes
  3. Multinomial Naïve Bayes
  4. Bernoulli Naïve Bayes
* Bernoulli Naïve Bayes Classifier is used because it is best suitable algorithm for this project because we have dataset in form of binary form and it is also uses the binary data as input.
* Naive Bayes is a supervised machine learning algorithm to predict the probability of different classes based on numerous attributes. It indicates the likelihood of occurrence of an event. Naive Bayes is also known as conditional probability.
* Naive Bayes is based on the Bayes Theorem.