

**Machine learning:** Machine learning is a method of data analysis. It based on the idea that , system can learn from data , identify pattern and make decision with minimal human intervention.

**Pattern :** Pattern is the repeated or regular way in which something happens or is done.

**Accuracy :** Accuracy is the number of correctly predicted data points from all the data points.

**Confusion matrix :** Confusion matric is the summery of predicted result on classification. It is a NxN matrix. Where N is the number of target classes.

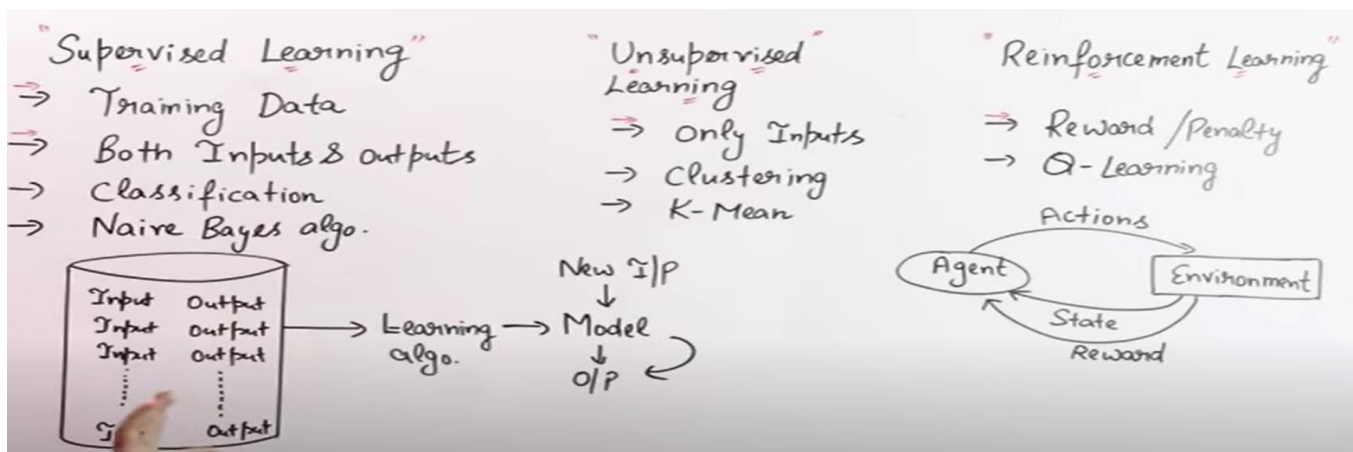
**Binary Classification:** It is a method of classify an entity into one of the two possible categories.

**Precision :** Precision is the ratio of correctly predicted positive observation to the total predicted positive observation.  $TP/(TP+FP)$

**Recall:** Recall is the ratio of correctly predicted positive observation to the all observation id actual.  $TP/(TP+FN)$

**F1 score :** F1 score is the weighted average of precision and recall.  $F1\ score = \frac{2(Recall*Precision)}{Recall+Precision}$

**AI :** Artificial Intelligence refers to the simulation of human intelligence, that are programmed to think like human and mimic their actions.



**Regression :** Regression is the technique of model and analyz the relation between dependent and independent variable.

**Clustering :** Clustering is a technique of grouping similar type of data or entity.

**Describe method:** Used for calculating statistical data.

**Elbow Method :** Used to determine the number of Cluster in a dataset.

**Cross Validation :** Used to evaluate a machine learning model on limited data sample.