Linear regression is supervised learning. It is the statistical method to show the relationship between two variable. It is one of the easiest algorithms in python machine learning. It helps us to find out relationship between dependent and independent variable e.g. market trends, house prices, weather forecast. It is used in

* Determining the strength of predictors
* Forecasting an effect
* Trend forecasting

Algorithm performs the tasks stepwise. It maps the input to the output e.g. classification, relationship between smoking and cancer.

Logistic regression is also a supervised learning used to predict the probability of target variable e.g. spam detection, diabetes prediction, cancer prediction etc.

Naïve Bayes is the mathematics enabling a machine to solve numerical problems. It helps to find if the hypothesis is true or not.

K-Means clustering which describes exploration of data where similar pieces of information are grouped. It is used by Biology/Genetics/species grouping, medical imaging to distinguish tissue types, market research, amazon etc.

Decision trees is predictive modelling approaches used in stastical data mining and machine learning. It uses a decision tree as a predictive model e.g. observation which directly effects the outcome.