

# Machine Learning Algorithms

## 1. Regression Algorithms

- Linear Regression
- OLS Regression
- Logistic Regression
- Stepwise regression
- Best subset regression

## 2. Instance Based algorithms

- KNN algorithm
- SVM
- Learning Vector Quantisation

## 3. Regularization Algorithms

- Lasso
- Ridge

## 4. Decision Tree Algorithms

- Classification and regression Tree (CART)
- C4.5 and c5.0

## 5. Bayesian Algorithms

- Naive Bayes
- Bayesian belief Network

## 6. Clustering Algorithms

- K means
- K median
- Lingo

## 7. Dimension Reduction Algorithm

- Principle component analysis (PCA)
- Linear discriminant analysis (LDA)

## 8. Artificial Neural Network

- Perceptron
- Back propagation
- Stochastic gradient descent

## 9. Deep NN

- RNN
- CNN
- LSTM
- Deep Boltzmann Machine

## **10. Association Rule Learning Algorithm**

- Apriori

## **11. Ensemble based algorithm**

- Bagging
- Boosting
- ADABOOST
- LightGBM
- RandomForestTree