[AssemblyAI-Examples/Machine-Learning-From-Scratch: Implementation of popular ML algorithms from scratch (github.com)](https://github.com/AssemblyAI-Examples/Machine-Learning-From-Scratch)

# KNN :

[KNN Algorithm: When? Why? How?. KNN: K Nearest Neighbour is one of the… | by Aditya Kumar | Towards Data Science](https://towardsdatascience.com/knn-algorithm-what-when-why-how-41405c16c36f)

Classification: Label of the majority points :Distance of the new point in respect to the other points

**When to use KNN:**

When data is labelled

When dataset is small

When there is less noise

//**distance of the new point from its nearest neighbours**

[(41) KNN Algorithm In Machine Learning | KNN Algorithm Using Python | K Nearest Neighbor | Simplilearn - YouTube](https://www.youtube.com/watch?v=4HKqjENq9OU)

Steps

Read

Check 0 or NAN->replace it with mean of that column

Split the data except the last column

Scaled the data on the X part X-train and X-test

DONOT TRAIN the Y part

KNN-Classifier- > ecludian metric

**Evaluate using confusion matrix cm= confusion\_matrix(y\_test.y\_pred)**

-y-pred = classifier.predict(X\_testr)

FI score ----> y-test and y-predict

# Linear Regression :

# Logistic Linear Regression

# Decision Trees

# Random Forest

# Naïve Bayes

# PCA

# Perceptron

# SVM

# KMeans

# Association rules,

# Neural networks,

# Ensemble learning : Bagging and Boosting