Hoishvant Date: = Evaluating Jensons with & tf. Session () as sess: tensorname. eval () Jensorflow Algos \* Lineare Regression (Line of best fit). It is of the form Mayor y = mx+b e Line of best fit Concept can be extended to (label) higher dimensions. x (feature) -> Implementation Training - Feeding of data points to an Mr model so that I it can infer the rule that quides the whole data set. Epochs - The number of passes of the entire dataset the Mr algorithm has completed. We geed the dataset OH batches to our model again and again in hope that the model will better determine how to estima it. Input Function (Tensorflow) - Convert pandas dataframe to tf. data. Dataset objects with appropriate batch-size and epochs. Fox batch-size and epochs: data.batch(size), repeat (epoch-number)

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After using the input function for creation of training and testing dataset, it's time for training the mode · Fox Linear dossifier, est = tf. estimator. Linear Classifier (feature-columns = fcs) \* feature-column represents twhat values are actually present in a particular feature can be both string and numbers. Training - est. train (training-input-function) Evaluation - est. evaluate (eval-input-function) It returns a dictionary which contains information about the evaluation such as accuracy, mean Prediction - result = est. predict (dpoint-input-func) Steps: Imports (Obvious) 2. Load Datasets (Input function (epoch, batch...) 3. Get feature columns 4. Get your model ready (DNNClassifice, LinearClassifice) 5. Irain the model 6. Evaluate and fredict Enjoy Custewing - It involves grouping of data into discrete sets. I dealy data points that are in the same group should have

· Assign data points to the centroid by distance.

· Place the centroids at the center of mass of the correspondituality.

similar properties. Procedure - (K-Means)

· Randomly pick k points to place k centroids

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· Reassign every point once again to closest centroid.
· Repeat until mo point changes its cluster.

→ Hidden Markov Model

A hidden markov model is a finite set of states, each of which is associated with a phobability distribution. I ransitions among the states are governed by Transition Properties | Probabilities

This model basically works with probabilities to predict future events ox states.

A hidden markov model has -1. States -> Eg = hot or cold, high on low, & g on b.

2. Observations -> Observation of an event based on state.

3. Transitions - The probability of transition between various

states

Observation-

Example -> 20% States 30% 80 % 70%

Mean: 20 Mean - 5 Min - 5

Max : 25 Max - 15

Transitions