* .

npm install crypto-js

<https://blockchain.com/btc/payment_request?address=16q9iqWXr2uj6BxfU2HAX2JayrWSiU>

ap2H&amount=1000&message=to start a startup

pandas is used to store data

numpy as list

pandas can be resemble as dictionary

ai has 3 parts ml(machine learning) ,dl(deep learning) and comp vision

**Machine learning**

* Method of data analysis
* Uses of ml

1. Customer segmentation to know want customer wants in looks ,need ,requirements
2. Predicting customer churn loan taken by person and then run away
3. Text sentiment analysis using ur facial expression to give ideas about text
4. Recommendation engines recommending u about ideas u want

**Data acquisition**

**Data collect karna 10 year challenge**

**Data cleaning**

**Remove fault images ,gif , cartoon and filteration by computer vision with faces and clearing images which are blur**

**If face differ by 50%(more) then plastic surgery chances**

**Take 14 points on face and matches**

**Then person faces were actual**

**Model training& building**

**Model trained with those 1000 images and then checked with one of images**

**Training data on which model is trained**

**And model is test on Test data check images**

**Features chng and then testing again and again to get less error**

**Last model deployment**

**Supervised learning**

Data set with input and output && after that if input data set is given output

Give output on basis of historical data eg: trains booking

Credit card transaction assign of value that they can give

Housing price can be estimated

**Unsupervised learning)**

**Two data with cats (500) and dog(500)** not require historical data

Depending upon features we can make group

Reinforcement learning eg: Sophia , gaming that are learning everyday and changing their features continuously

**Coding linear regression**

**Model is** made on the basis of data (points)

Making a line with data so that for a known x, y can be found

Random line distance should be minimum from other points

Error minimization then find minimum value of data