Application of Machine Learning.

- 1. Clarification type: If the output variable is discrete value (for instance male, female ... etc.) we can say that is superevised learning belongs to clarification type. Some of its dos application given below -
- receive a new enail, it is filtered as to matically as import normal, and spam. We always receive an important mail in our inbox with the important symbol and spam emails in our spam box, and the technology behind this is spam box, and the technology behind this is spam box, and the technology behind this is

Some machine tearning appointhm such an Multi-Layer Perception Decision tree and Naive

Bayer danifier are used for email spandiltering and malware detection.

Disease Clarification & I mage claimfication arrights

previously trained categories to a given image

There could be the subject of the image, a

numerical value, a theme etc. Using

superivised learning algorithm use can tag

images to train our model for appropriate

categories. As with all machine learning

models, the more we train it, the better

it will work.

(c) sentiment analysis: sentiment analysis is a machine learning text analysis technique that arrighes is entiment (opinion, feeling or emotion) to worker working a text, or an entire

text on a poloreity scale of Positive, Neg-

some other example of application of Clamfic ation type are freed plant species species clamfication, optical character raceg intion etc.

2. Regression: If the output variable is a continuer value (for instance weigh, heigh etc), we can say that superived learning belongs to Regression problem.

(a). Stock Markets trading . Machine Laaring. In is widely used in stock market strading. In the stock market, there is alway a hisk the stock market, there is always a hisk of up and down in shares, so for this machine learning's dong shout term

memory neural network is used for the prediction of stock market trænds

b) Weathers forceasting: weathers forceasting is the application of scientific techinques and technology to predict the condition of at mosphere at a ceretain location and time.

population growth plays a key role in any regional planning. In many data constraint environment, it is not possible to collect the required the demographic data to predict the human population growth teate.

- 3. Clustering of In such problem, it is group the given data upon various conditions. Such analysis in used in education field to cluster students. Some applications are given below.
 - (a) Grouping of shopping items: custering can be used to group all the shopping item available on the web a set of unique product.
- (b) Natural Language processing o clustering cambe used to resolve lexical ambiguity. NLP cambe used to resolve lexical ambiguity. NLP cambe used to resolve lexical ambiguity. NLP cambe used to resolve lexical ambiguity.
- (c) Recommender systems: Recommender systems are derigned to recommend new item borsedom on a user's tarter. They sometimen use distant on a user's tarter that predict a user's prefelustering algorithms to predict a useri's pref-

evenue based on the preferences of other users in the users elusters.

4. Association: In such problem, it will discover relationships in the given data set.

(9) Medical Diagnosis: With the help of association rules, patients can be cured early, as it helps in identifying the prease probability of illness fore a pareticular disease.

(b) Protein Sequence: The association rules help in determining the synthesis of aretifical poteins.

the Lane of their of withings printed

(e) Mareket Basket Analysis: It is one of the populare examples and applications of amosiation rule mining. This technique is commonly used trule mining. This technique is commonly used by big retailers to determine the amociation by big retailers to determine the amociation by big retailers.