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spam filtering

- · Random Trees
- · Decision Trees
- Logical Reg.
- · support vector machine.

@ Unsupervised LIA.

The machine does not need any external supervision to learn from the data, hence called unsupervised learning. The unsupervised models can be trained using the unlabelled dataset that is not classified, not categorized, and the algorithm need to act on that data without any supervision. In supervised learning the model dosent have predefine output and it tries to find useful insight from the huge amount of data. The are used to solve Associate and clustering problem.

Unsupervised LIA

Clustering

Association

B) Reinforcement Learning of In RIL ion ingent interact with it's environment by producing actions, and learn with the help of feedback. The feedback is

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given to the agent in the form of reward. Such as for each good action, he gets a positive reward and for each bad action, he gets a positive negative reward. There is no supervision provide to the agent. O- Learning adjointhm is used in reinforcement learning.

1 Semi-Supervised L.

in beth this two. In many practicle situation the cost to lable is quite high, since it requires skilled human expert to do that. So, in the absence of labels in the majority of the observations but present in few. Semi-Supervised algorithm are the best candidates for the model building.

* Supervised Learning ?-

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Support Vectors in (SVM.) Machine Learning.

Support Vector machine (SVM) is a

both classification and regression. Though we say

regression problem as well its best suited for

classification. The objective SVM algorithm to find

hyperplane in an N-dimensional space that distinctly

classifies the data points. The dimention of the

hyperplane depends upon the number of features

If the number of input feature is two, then the
hyperplane is just a line. If the number of input

Features is three, then the hyperplane becomes

a 2-D plane. It becomes difficult to imagine

when the number of features exceeds three.

Advantages of sum: -

· Effective in high dimensional cases.

· Its memory efficient as it uses a subset of training points in the decision function couled support vectors.

· Different Kernel Function's can be specified for the decision Functions and its possible to specifies custom Kernels.