

Machine learning:

Applications:

Manufacturing

Ecommerce

Google lens

Fraud or real transactions

AI uses both ML ,NLP and DL

Eg:Chatbot

ML is the study of algorithms that improve their performance p , at a task T , with experiences E

Example 1:

Task T :

Recognizing face of image.

Experience E :

Set of images

Performance P :

Correctly recognizing a face.

ML Algorithms:

Supervised and unsupervised

Supervised:input data is labeled

Unsupervised:Input data is unlabelled

Semi supervised learning:

Both labelled and unlabelled eg:medical imaging

Reinforcement:

Games and robotics

Reward based learning

Supervised learning:

Regression and classification

Unsupervised:

Clustering

Linear regression:

Simple

Regression model tend to predict a continuous value as an output

X as input and y as output value in a linear equation.

Classification:

Classify Spam or not spam incoming emails

In regression output is continuous value

In classification output is discrete

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