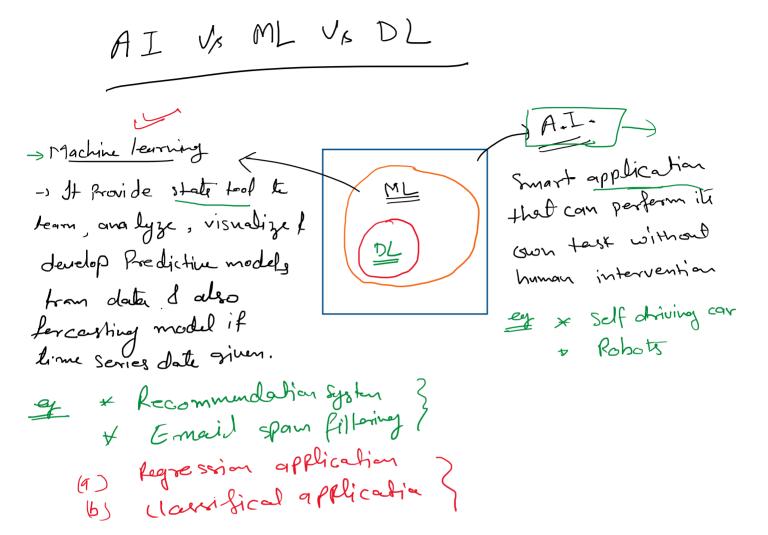
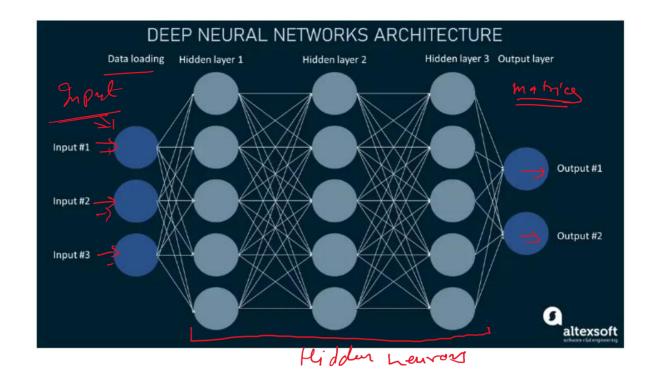
11 October 2024 08:23 PM



DL (Dep learning) -> minisc the human brain wring multilayered Neural network



* object dection -> ?

* Image classification ->

* chartbats ->

What Is Machine Learning?

Machine Learning is the science (and art) of programming computers so they can learn from data.

Here is a slightly more general definition:

[Machine Learning is the] field of study that gives computers the ability to learn without being explicitly programmed.

-Arthur Samuel, 1959

And a more engineering-oriented one:

A computer program is said to learn from experience E with respect to some task T and some performance measure P, if its performance on T, as measured by P, improves with experience E.

-Tom Mitchell, 1997

Type of ML

Supervised machine learning > Regression

Onsupervised machinelearning

Unsupervised machinelearning Semisupervised machinelearning Reinforcomt learning 4 Supervised ML clamification No. yhr played Pals/fail Dependut

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Kegressian

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Cytomer segmentation

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Hierachiral Analysis (HC cluster Anomaly detection > One - class sum one-class sum

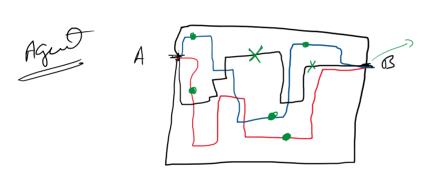
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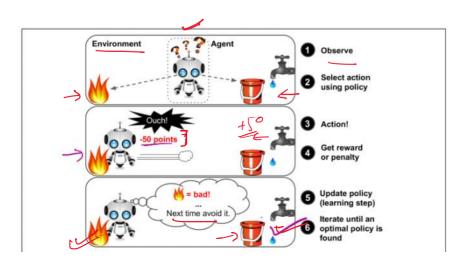
The combination of supervised of meaning of me

Reinforcement learning ->



Reinforcement Learning

Reinforcement Learning is a very different beast. The learning system, called an agent in this context, can observe the environment, select and perform actions, and get rewards in return (or penalties in the form of negative rewards, as in Figure 1-12). It must then learn by itself what is the best strategy, called a policy, to get the most reward over time. A policy defines what action the agent should choose when it is in a given situation.





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