Deep Learning:

Training the machine using neural network. These are helpful to increase the ML performance.

Neuron is a unit of neural network. Neural network is a group of artificial neurons each of which computes a relatively simple function.

Types of neural networks:

Simple network : network with single neuron .

Complex network : network with many neurons to compute the tasks.

To build a neural network:

We need to feed lots of data for input and give it to data with output B as well.

Eg: Give data for inputs liek price, cost, marketing and we get the output as demand.

In order to build the AI project, we need to know -

* Workflow on AI project.
* Selecting an AI project
* Organise the data and team as well.

Workflow of Machine Learning projects:

* Collect the data.

Example : we take Alexa as an example. For this we need to collect the data by recording the audio of the people saying Hello, alexa etc.

* Train the model using a machine learning algorithm to learn input to output.

Training the model does not work well in first attempt, need to iterate many times for better performance.

* Deploy model

Put the software ina device and shipping it to a small group of users or large group of test users.

Workflow of Data Science projects:

Example : In an online shopping website we need to send data from one page to another

* Collect data

Data from the sites user are using.

* Analyse the data

Why more people shop around holidays?

Why people shift from the site?

* Suggest hypothesis and actions

Deploy the changes to website as we get new data as users behave differently.