**Deep Learning**

Deep learning is subfield of Machine learning that involves use of artificial neural networks to analyze and interpret data

Used in image recognition, image classification, NLP, speech recognition etc.

Deep learning uses algorithms to **Process Information** and **Emulate thinking Process** or to create the **Abstractions**.

**Process Information**

These algorithms can efficiently analyze vast datasets uncovering the intricate relationships and patterns in data.

**Emulating Human behavior**

Deep neural networks with their multilayered architecture mimic the human brains learning process. This allows them to progressively refine their understanding of data and increasingly accurate predictions.

**To create Abstraction**

Deep neural networks (DNNs) can autonomously extract relevant features directly from raw data. Deep learning utilizes the layers of algorithms

1. The primary layer is called the input layer
2. The latter layers is called the output layer
3. Each layer between every two layers is called hidden layer