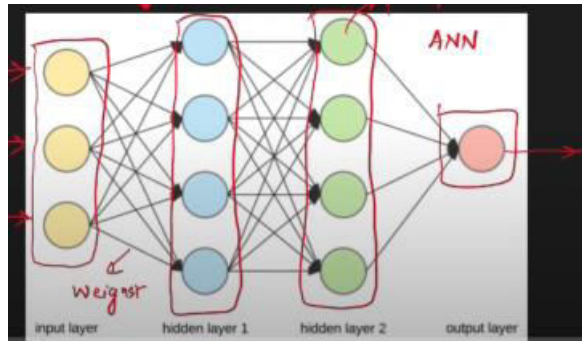


Deep learning definition:

Deep Learning is a subfield of Artificial Intelligence and Machine Learning that is inspired by the structure of a human brain. Deep learning algorithms attempt to draw similar conclusions as humans would by continually analyzing data with a given logical structure called Neural Network.

->Deep learning learns from unlabelled data unlike ML

->It follows the human like neural network architecture



There are multiple types of it including -ANN,RNN,CNN etc

1. Data Dependency
2. Hardware Dependency
3. Training Time
4. Feature Selection
5. Interpretability

->We need data in millions of magnitude to train models unlike ml

->We need gpu or(tpu)(tensor processing unit) with help of cuda which is invented by Nvidia

->Training time is much more

->Automatic Feature selection but reason remains anonymous (we can't interpret why it gave such an answer)unlike ml

->Every year internet is getting cheaper->more ppl to use->more data gathered->can perform ops on em

->hardware resourcing getting better each year

->frameworks like

- 1.TensorFlow by Google
- 2.Abstract version of tensorflow is Keras
- 3.PyTorch by Facebook