**Deep learning advanced with python**

Deep learning, we can say is another branch artificial intelligence that falls under the realm of machine learning. This process focuses on teaching computers what comes to humans naturally by mimicking the functioning of human brain as the machine tries to learn things using unstructured data.

Deep learning architectures uses artificial neural network to learn and process data, similar way as to how the biological neuron works. Unlike the biological neuron, Artificial neurons are static are symbolic whereas the former is dynamic.

The structure of a deep learning network is fairly simple as it is constituted of ANNs. While traditional neural networks have 2-3 hidden layers, Deep learning Neural networks can have up to 150 hidden layers. In deep learning artificial neural network, we have an input layer (the primary layer), a hidden layer (consists of all the middle layers) and the output layer (the final layer). Depending upon our need and different types of layers associated with the network, there are multiple different kinds of ANNs like RNN, CNN, Modular neural network, etc.

Some commonly used deep learning networks are

* Feed forward neural network
* Radial basis function neural network
* Multilayer perceptron
* Convolution neural network
* Recurrent neural network
* Modular neural network
* Sequence to sequence models

Deep learning is implemented in the field of medicine, software, finance, law enforcement and more. Some prominent implementations of deep learning are in

1. Virtual assistants
2. Chatbots
3. Facial recognition
4. Shopping and entertainment
5. Pharmaceuticals

**Why use python for deep learning?**

It is quite natural to wonder why python is used to implement deep learning, and the answer is almost always the same. The open-source nature of python, tons of libraries that has solutions for ever problem to choose from, a very supportive community backing up developers along with smooth implementation and integration.

**What is the average salary of a deep learning engineer in India?**

Graduates with a Bachelor’s degree engineering can earn around Rs. 3.5 – 6 LPA, whereas those having a postgraduate degree can make about Rs. 5 – 7.3 LPA.

Mid-level Deep Learning Engineers having more than eight years of work experience can earn an average annual salary of Rs. 7 – 12 LPA, whereas senior-level professionals having over 15 years of field experience can command salaries ranging between Rs. 25 – 48 LPA and more.

**What will you learn from this course?**

The complete deep learning advanced with python course will navigate you through TensorFlow, Keras, Pytorch, scikit learn and other deep- learning libraries. This course will take you on a deep dive into the important aspects of problem solving through machine learning and at the end of this you’ll be confident enough to take on projects by yourselves, build masterclass deep learning models, prototypes so on and so forth