



**IT Expert**  
TECHNOLOGY

# Deep Learning (Complete Course)

N O W   Y O U   C A N   C O D E

## 100% PLACEMENT



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## An Overview

Deep learning courses provide in-depth knowledge and practical skills related to the field of deep learning, which is a subset of machine learning focused on training neural networks with multiple layers. These courses typically cover various topics and techniques, including artificial neural networks, convolutional neural networks (CNN), recurrent neural networks (RNN), popular deep learning frameworks like TensorFlow and PyTorch and Projects etc.

## Introduction

- ✓ Introduction to Deep Learning
- ✓ Difference Between Artificial Intelligence vs Machine Learning vs Deep Learning

## Basic Neural Network

- ✓ Difference between ANN and BNN
- ✓ Single Layer Perceptron in TensorFlow
- ✓ Multi-Layer Perceptron Learning in Tensorflow
- ✓ Deep Neural net with forward and back
- ✓ propagation from scratch – Python
- ✓ Understanding Multi-Layer Feed Forward Networks
- ✓ List of Deep Learning Layers

# Activation Function

- ✓ Activation Functions
- ✓ Types Of Activation Function in ANN
- ✓ Activation Functions in Pytorch
- ✓ Understanding Activation Functions in Dept



# Artificial Neural Network

- ✓ Artificial Neural Networks and its Applications
- ✓ Gradient Descent Optimization in Tensorflow
- ✓ Choose optimal number of epochs to train a
- ✓ neural network in Keras

## Classification

- ✓ Classify Handwritten Digits with Tensorflow
- ✓ Train a Deep Learning Model With Pytorch



# Recurrent Neural Network

- ✓ Introduction to Recurrent Neural Network
- ✓ Recurrent Neural Networks Explanation
- ✓ Short term Memory
- ✓ Long Short Term Memory
- ✓ Long Short Term Memory Networks Explanation
- ✓ LSTM - Derivation of Back propagation through time

## Opencv

- ✓ Introduction to OpenCV
- ✓ `OpenCV _ cv2.imwrite()` method
- ✓ `OpenCV _ cv2.imshow()` method
- ✓ Set up Opencv with anaconda environment
- ✓ `OpenCV _ cv2.rectangle()` method

# Introduction to Convolution Neural Network

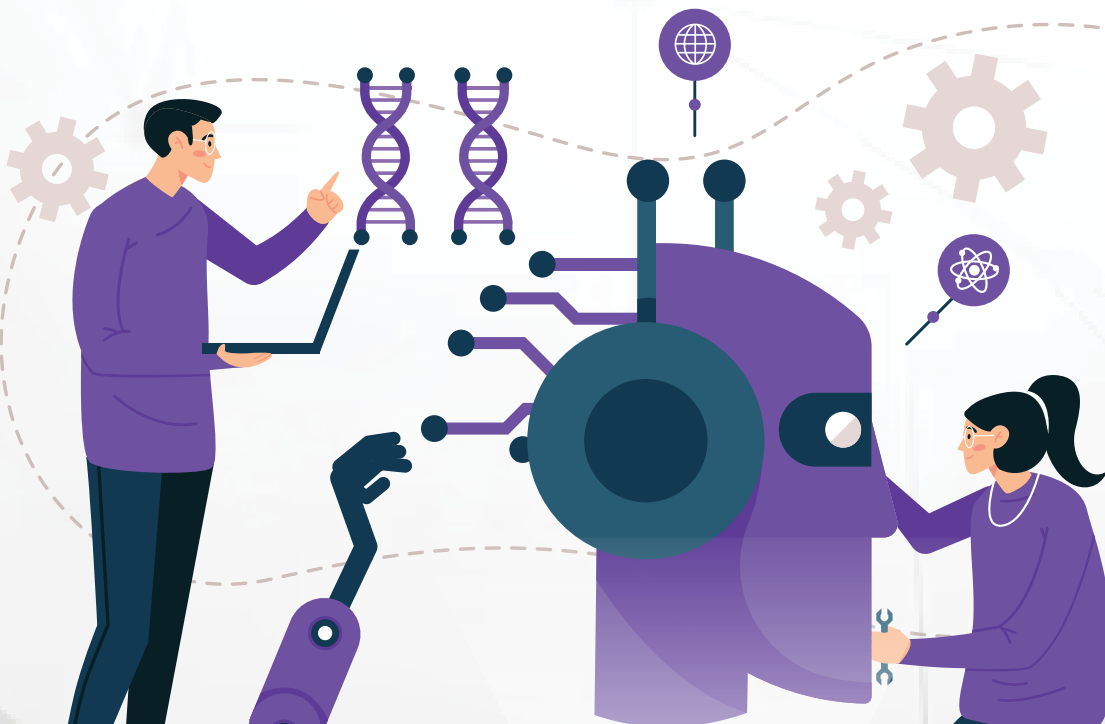
- ✓ Introduction to Convolution Neural Network
- ✓ Digital Image Processing Basics
- ✓ Difference between Image Processing and Computer Vision
- ✓ CNN \_ Introduction to Pooling Layer
- ✓ CIFAR-10 Image Classification in TensorFlow
- ✓ Implementation of a CNN based Image Classifier using PyTorch
- ✓ Convolutional Neural Network (CNN) Architectures
- ✓ Object Detection vs Object Recognition vs Image Segmentation
- ✓ YOLO v2 - Object Detection

# Python GUI

- ✓ Importing the module
- ✓ Python simple calculator using tkinter
- ✓ Simple Registration form using tkinter
- ✓ Simple Login form using tkinter
- ✓ Python GUI – tkinter

## Working with Database

- ✓ Inserting Variables
- ✓ Mysql connection
- ✓ Python database management
- ✓ SQL using python SQLite





## Django framework

- ✓ Django basic
- ✓ Views in django
- ✓ Django URLs
- ✓ Django Template
- ✓ Django Forms
- ✓ Django models
- ✓ Django projects

## Deep Learning Projects

- ✓ Gun Detection using Python-OpenCV
- ✓ Brain Tumor detection
- ✓ Face and Hand Landmarks Detection using Python  
– Mediapipe, OpenCV

## CONNECT WITH US

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