

DEEP LEARNING MASTER CLASS

SECTION 1: COURSE OVERVIEW

- + DAY-1 Introduction to Deep Learning
- + DAY-2 Basic Computer Vision

SECTION 2: ARTIFICIAL NEURAL NETWORK

- + DAY-3 Neurons & Perceptron
- + DAY-4 Activation Function
- + DAY-5 Gradient Descent
- + DAY – 6 Stochastic Gradient Descent
- + DAY – 7 Backpropagation
- + DAY – 8 Artificial Neural Network – Project 1

SECTION 3: DEEP NEURAL NETWORK

- + DAY – 9 Optimization Algorithms – SGD, Momentum, NAG, Adagrad, Adadelta , RMSprop, Adam
- + DAY – 10 Batch Normalization
- + DAY- 11 Hyperparameter tuning
- + DAY- 12 Interpretability
- + DAY- 13 Deep Neural Network – Project 2

SECTION 4: CONVOLUTIONAL NEURAL NETWORK

- + DAY- 14 Convolutional Neural Network & its Layers
- + DAY- 15 CNN Architecture

WARRIORS WAY COACHING PROGRAM

- + Day-16 Different frameworks on Deep Learning (Tensorflow, Keras, PyTorch & Caffe)
- + Day-17 Object Recognition using Pre Trained Model – Caffe – Project 3
- + Day-18 Image classification using Convolutional Neural Network from Scratch – Tensorflow & Keras – Project 4
- + Day-19 Custom Image Classification using Transfer Learning – Project 5
- + Day-20 YOLO Object recognition – Project 6
- + Day 21 Image Segmentation – Project 7
- + Day 22 Project using MxNet – Project 8
- + Day 23 Project using PyTorch – Project 9
- + Day 24 Social Distancing detector – Project 10
- + Day 25 Face Mask detector – Project 11

SECTION 5: RECURRENT NEURAL NETWORK

- + Day 26 Introduction to RNN and LSTM
- + Day 27 Project using RNN – Project 12

SECTION 6:

- + Day 28 Introduction CUDA Toolkit and cuDNN for deep learning
- + Day 29 Getting started with the Intel Movidius Neural Compute Stick – Project 13
- + Day 30 Custom Object classification using Nvidia Jetson – Project 15