Deep Learning with
Advance Machine Learning

4-6-8 Weeks Program / 30 Hours
Job oriented exhaustive program
Online Internship & Training Program

Official Partner

EI Systems
Unconventional Ideas.
Systematic Approach.

EISYSTEMS SERVICES
FF-113, Express Greens Plaza, Sector 1
Vaishali, Ghaziabad (Delhi NCR), Uttar Pradesh -201010
P: +91 9773976977 | E: info@eisystems.in | W: www.eisystems.in

About EISystems

EISystems Services is a leading Indian technology identity with operations in 16 states and union territories of India. EISystems (We call it EISys) offers trainings in Machine Learning, Internet of things, Deep Learning, Computer Forensics, Automobiles, Robotics and Socialmedia related solutions for enterprises and student community. Our online edtech domain "Robokwik"have been in among top self learning products provider brands in India. We have trained about 70000 students and impacted around 2 lakhs students through our various outreach initiatives since our founding.

Our Clientale

Some of the colleges where we had already felt our presence are given below:-

Indian Institute of Science, Bangalore
Indian Institute of Technology, Bombay
Indian Institute of Technology, Delhi
Indian Institute of Technology, Madras
Indian Institute of Technology, Kanpur
Indian Institute of Technology, Roorkee
Indian Institute of Technology, Guwahati
Indian Institute of Technology (Banaras Hindu University), Varanasi
Indian Institute of Technology, Indore
Indian Institute of Technology, Bhubaneswar
Indian Institute of Technology, Jodhpur
Indian Institute of Technology, Hyderabad
National Institute of Technology, Tiruchirappalli
National Institute of Technology, Warangal
National Institute of Technology, Calicut
National Institute of Technology, Patna
National Institute of Technology, Jalandhar
National Institute of Technology, Jaipur
National Institute of Technology, Durgapur
National Institute of Technology, Surat
National Institute of Technology, Allahabad
Indian Institute of Information Technology, Allahabad
ABV- Indian Institute of Information Technology & Management, Gwalior
College of Engineering Guindy,
Anna University, Chennai
PSG College of Technology, Coimbatore
JNTUH College of Engineering, Hyderabad

and more than 100 other engineering colleges.

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Internship & Training Program

Prerequisites

Participants from CSE/IT/MCA/BCA/BSc IT/ECE/EN/ background are eligible to join this program.

This is an advance level program and we expect participant to have a knowledge of Machine Learning & Python Programming before joining this program.

What to bring during training program?

We expect participant to come with

1. A laptop with Microsoft Windows configuration.
2. Laptop Charger/ Adapter for charging purpose.
3. USB Mouse for designing purpose (if required).

Post Training Deliverables

Every participant will get all under mentioned deliverables

1. 30 hours online training by specialized trainer.
2. Certificate of Internship from Eisystems Services & Technex IIT (BHU) Varanasi.
3. Guidance for Entrepreneurship in chosen field or employment support (if asked).
4. Chance to assist our trainer in our workshop(s) at IISc, IITs, NITs etc.

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Internship & Training Program

Course & Content

All of the sessions will be practical oriented, kindly look on the syllabus which we are going to cover during training days.

Session 1
Introduction of Artificial Intelligence, Machine Learning & Deep Learning
- Introduction of Machine Learning
- Introduction of Artificial Intelligence
- Brief Introduction to Machine Learning for Artificial Intelligence
- Classification of Machine Learning and Deep Learning
- Difference between Machine Learning and Artificial Intelligence
- Machine Learning Techniques
- Types of Learning
- Machine Learning System Design
- Supervised Learning- Regression
- Classification
- Future scope, Machine Learning & Artificial Intelligence

Session 2
Introduction Neural Network
- Neuron
- The Neuron Diagram
- Neuron Models
- Activation function
- Binary Step Function
- Linear Function
- Sigmoid
- Tanh
- ReLU
- Leaky ReLU
- Softmax
- Single-layer feed-forward
- Multi-layer feed-forward
- Feedforward Neural Networks, Convolutional Neural Networks

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Session 3
Machine Learning & Deep Learning Algorithms

Logistic Regression
Multilayer Perceptron
Naive Bayes Classification
Deep Convolutional Network
Deep Reinforcement Learning
Backpropagation
K-Means Clustering
Support Vector Machines (SVM)
Convolutional Neural Networks(LeNet)
K-Nearest Neighbors (KNN) AlgorithM
Long Short-Term Memory Units (LSTMs)

Session 4
Python / Anaconda

Introduction to Python and Anaconda
Conditional Statements
Looping, Control Statements
Lists, Tuple ,Dictionaries
String Manipulation
Functions
Installing Packages
Introduction of various tools
Introduction of Anaconda
Working on spyder ,Jupyter notebook

Session 5
Working on Various Python Library

Installing library and packages for Machine Learning and Data Science
Matplotlib
Scipy and NumPy
Pandas
IPython Toolkit
Scikit-learn

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Session 6
TensorFlow

> Introduction of Tensorflow
> Basics of Tensorflow
> Graph in TensorFlow
> Placeholders, Constants, Variables
> Common data stored in Tensors
> Linear and Logistic Regression in TensorFlow
> Image classifier using convolutional neural network

Project

> Classifying MNIST digits using Logistic Regression
> Simple Spam-Detecting Machine Learning Classifier
> OCR of Hand-written Data using KNN
> LSTM Networks for Sentiment Analysis
> Deep learning model for Stock Price prediction using TensorFlow
> Image Segmentation using Deconvolution layer in Tensorflow
> Develop a Predictive Analytics Model for a complex dataset
> KNN for classification & Hand written digit recognition
> Real Time Object Classification Using Tensorflow
> Face Detection

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