



Deep Learning

4 Weeks / 30 Hours
Offline/ Classroom
Internship & Training Program

Delhi-NCR | Lucknow | Bhubaneswar | Bhopal | Varanasi

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EISYSTEMS TECHNOLOGIES



About ElSystems

EISystems Technologies 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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Prerequisites

Participants from 2nd year / 3rd year / 4th year of CSE/IT/ICT/BSc IT/MCA/BCA or related domains will get more benefited after joining this program. It is to note that those students who have already completed their project in Machine Learning are eligible to join this program as this is an advance level program.

What to bring during training program?

Here's the checklist

- 1. Fully charged laptop with Microsoft Windows configuration.
- 2. Laptop Charger/ Adapter
- 3. USB Mouse for designing purpose.

What we are expecting for COVID19 prevention?

During visit at our center we expect students / interns :-

- 1. To wear facemask during training session enough to cover mouth & nose.
- 2. To have a bottle of sanitizer all the time.
- 3. To come with a bottle of drinking water with enough water as it will not be provided at center.
- 4. To use Aarogya Setu app otherwise entry will not be allowed.
- 5. Not to use or atleast discourage using of washroom at center.
- 6. To follow social distancing norms and follow all government guidelines regarding COVID19 prevention.

Training Deliverables

Every participant will get all under mentioned deliverables

- 1. 30 hours classroom training by specialized trainer.
- 2. Certificate of Internship with project mentioning on it.
- 3. EISystems Access ID Card & Stylish Storage Folder
- 4. Notepad & Pen

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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

Updation & Duration of Course

The course (given above) is a proposed structure and we are currently working to update it considering industry requirements, we may add / delete / modify sessions in it without any prior notification. The internship program is divided into two parts i.e. training period (2 weeks) and project period(2 weeks) however total duration of program will remain 4 weeks only.

Disclaime

A session doesn't necessarily depict the day count or the day on which it is going to be covered, we may cover more than or lesser than one session in a day and even alter/amend the schedule by rearranging of session(s) by removing/adding anything from/to overall course, the course structure may differ center wise, Also this is to notify that Eisystems Technologies is nowhere specifying that center in Varanasi will be IIT (BHU) Varanasi campus, our center in Varanasi is different. Fees once paid will not be refunded, Please check our refund policy given on website before proceeding for payment. It is important to note that IIT (BHU) Varanasi or any of its body is not charging anything for this training program and whatever amount which you will be paying will either go to Eisystems Technologies or its associates or both.

COVID-19 Policy

No amount will be refunded in case of non conduction of program due to government guidelines for COVID-19 prevention and instead remaining / all sessions will be conducted online through mentor led training however we will also give flexibility to students/ attendee to continue the remaining session when things normalize at other center.

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