



THE ANNUAL TECHNO-MANAGEMENT FEST, IIT (BHU) VARANASI

TECHNEX'19

Internship & Training Program



Machine Learning (Python)

2 Weeks / 32 Hours

Job oriented exhaustive program

Winter Internship & Training Program

Bengaluru – Bhubaneswar – Bhopal – Lucknow

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EISYSTEMS SERVICES

FF-113, Express Greens Plaza, Sector 1, Vaishali, Ghaziabad
Delhi NCR – 201010 - India

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Internship & Training Program

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 computer forensics, automobiles, robotics and socialmedia related solutions for enterprises and student community. Our retail 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 Clientele

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, 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
- PDP- Indian Institute of Information Technology & Management, Jabalpur
- College of Engineering Guindy, Anna University, Chennai
- PSG College of Technology, Coimbatore
- JNTUH College of Engineering, Hyderabad
- SRM University

and more than 100 engineering colleges across India.

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Prerequisites

Participants from 1st year/ 2nd year / 3rd year / 4th year of CSE/IT/MCA/BCA/BSc IT/ECE branch will get more benefited after joining this program.

What to bring during training program?

Here's the checklist

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

Post Training Deliverables

Every participant will get all under mentioned deliverables

1. Certificate of Internship from Technex IIT BHU Varanasi & Eisystems Services
2. Software Package with booklet for Laptop/Tab.
3. Printed Study Material Booklet
4. Notepad & Stylish Storage Folder.
5. Access ID Card

Fees & Discounts

There are multiple type of discount(s) available as mentioned below:-

Category 1: Group Discount (2 to 7 Members Group)

Installments	Amount
First Installment	Rs. 1000 per participant only
Second Installment	Rs. 4300 per participant only
Total	Rs. 5300 per participant only

Category 2: Single / Individual Entry

Installments	Amount
First Installment	Rs. 1000 per participant only
Second Installment	Rs. 4500 per participant only
Total	Rs. 5500 per participant only

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How to pay Confirmation fees?

The payment of registration fees can be made using undergiven modes:-

Online Mode

Credit Cards / Debit Cards
Net banking
Ola Money
PayTM

To pay fees, kindly check Payment link on Email / Website.

Offline Modes

Direct Bank Deposit in Kotak Mahindra Bank

Step 1: Go to any Kotak Mahindra Bank near you.

Step 2: Fill the Pay-In-Slip with required amount and undergiven account number

Step 3: Deposit the amount in bank account, the details of it are given below:-

Bank Name	:Kotak Mahindra Bank
Account Name	:EISYSTEMS SERVICES
Account Number	:2011117760
IFSC Code	:KKBK0000149
Type	:Current
Branch	:Mathura

Step 4: Take the countersigned Pay-In-Slip from bank counter with valid seal and transaction number and write the name of participants on the back side of it.

Step 5: Scan both sides of Pay-In-Slip and send it to internship.eisystems@gmail.com along with information of each attendee on that payment slip like Name, Phone Number, Email Address, Course Name, Center,City.

Step 6: Keep this payment slip with you and we will collect it at the time of registration otherwise we may not consider your registration.

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**Internship & Training Program****Course & Content**

All of the sessions will be practical oriented, so it will be really great if participant(s) can look on the syllabus which we are going to cover during training days.

S.No	Topic	Sub Topic
1.	Introduction Data Mining	Introduction of Data Mining
		Stages of the Data Mining Process
		Data Mining Goals
		Information and Knowledge
		Advantages in Data Mining
		Related technologies - Machine Learning, DBMS, OLAP, Statistics
		Data Mining Techniques
		Role of Data Mining in Various Field like Artificial Intelligence and Internet of Things
		Future scope of Data Mining
2	Data Warehouse and OLAP / Data preprocessing	Data cleaning
		Data transformation
		Data reduction
		Data Warehouse and DBMS
		Multidimensional data model
		OLAP operations
		Supervised and Unsupervised Technique
3	Data mining algorithms	Regression Analysis
		Linear Regression and Logistic Regression
		Classification
		Prediction
		Bayesian Classification Models
		Association rules
		Neural Networks
		Perceptron
		MLP
		SVM

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4	Python/Anaconda	Introduction to python and anaconda
		Conditional Statements
		Looping, Control Statements
		Lists, Tuple ,Dictionaries
		String Manipulation
		Functions
		Installing Packages
		Introduction of Various Tool
		Introduction of Anaconda
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
6	Data Structures in Python	Intro to Numpy Arrays
		Creating ndarrays
		Indexing
		Data Processing using Arrays
		File Input and Output
		Sorting & Summarizing
		Descriptive Statistics
		Combining and Merging Data
7	Data Analysis Using Pandas	Introduction to Pandas
		Data Type of Pandas
		Creating DataFrame using Pandas
		Importing and Exporting Database
		Working with Complex Data
		Data Mining using Pandas .

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		Modeling using Regression
		Creating a Clustering Model
		Loan Prediction Problem
		Working on Iris Data Set Titanic Data Boston Housing Data Set
8	Hand on /Project	Predict Stock Prices
		Classifying MNIST digits using Logistic Regression
		Intrusion Detection using Decision
		CIFAR Data set ImageNet Data Set
		Credit Risk Analytics using SVM in Python

Disclaimer:

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 Services is nowhere specifying that center in Varanasi will be IIT BHU campus, our center in Varanasi is different and Technex which is an annual techno entrepreneurship festival of IIT BHU Varanasi is a certification partner for this internship program. Fees once paid will not be refunded except in case of cancellation of training program or as given in terms and conditions.

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