Report on "Two week Certification Program on „Python for everybody" Phase-2"

Event Type   :   A Two Week Certification Training Programme

Date(s)   :   14th to 27th May, 2021

Resource Person(s)   :

- **Niharika,** Developer at Cognizant
- **Hemchand,** Business analyst at Quantify.

Name of Coordinators :   Mr. V.V. Krishna Reddy.

Target Audience   :   B.Tech. VIII Semester Students

Total no of Participants :   59

Objective of the Event : This program is designed to train and develop IV Year Students of IT Department by equipping them to be able to use Python Programming for solving Data Science problems. The main objective of this training program is to provide hands-on familiarity with Python Programming in an on-going process of Data Science.

Schedule of the event: Day wise schedule was given below.

Day-1, 2 & 3: Object-Oriented Programming (OOPs)
- Class
- Objects
- Polymorphism
- Encapsulation
- Inheritance

Day-4&5: Numpy with examples
- Define numpy
- Numpy vs list
- Arrays
- Applications of numpy
- In this session, students will learn Numpy library with an examples

Day-6, 7&8: Pandas with example
- Introduction
- Creating Objects
- Viewing Data
- Data frame
- Manipulating Data
- Grouping Data
- Merging, Joining and Concatenating
- Working With Text Data, CSV and Excel files
- Visualization

Day-9 & 10: Matplotlib
Basic plots in Matplotlib
- Line plot
- Bar plot
- Histogram
- Scatter plot

Day-11 & 12: OpenCV with an example
- Introduction
- Working with Images
- Working with Videos
- Applications

The Objective of this session is to explore the concept of OpenCV using practical examples.

Outcome of the Event : On completion of this workshop Student can able to:
- Express his/her understandings of how object oriented programming concepts are used in python.
- Apply Numpy , Pandas, Opencv and Matplotlib packages for solving the Real world DataScience problems.
- Apply python language constructs for solving Machine Learning problems.

Description /of the Event :

Python for Data Science is a must learn for students who want to start their career in the Data Analytics domain. With the growth in the IT industry, there is a booming demand for skilled Data Scientists and Python has evolved as the most preferred programming language. Through this workshop, students will learn the basics, how to analyze data and then create some beautiful visualizations using Python. Students are getting familiar with python libraries like NumPy, Matplotlib, Scikit-learn, and Pandas for solving the real world problems.

Feedback / Suggestions :

> ➢ I thoroughly enjoyed the workshop and learnt the concepts of python.
> ➢ Even though I am new to Python Programming and Data Science, with this workshop I got the confidence that I could able to analyze and solve some of Data Science problems.
> ➢ Really worth attending this certification training program. Thanks to the coordinators of this workshop for organizing this.

List of Students Participated in Training Programme:

S.No	Reg. No	Name of the Student	College Name
1.	16761A1255	VALIVETI AKHIL	LBRCE
2.	17761A1201	AMBATI HARIKA	LBRCE
3.	17761A1202	ANUSREE NUVULLA	LBRCE
4.	17761A1203	BORRA RAMADEVI	LBRCE
5.	17761A1204	BUDDE AKHILA	LBRCE
6.	17761A1205	CHALLA SAI SUDHA SRI	LBRCE
7.	17761A1206	CHAMALLAMUDI LALITHA DEVI	LBRCE
8.	17761A1207	CHEMBETI LAYA	LBRCE
9.	17761A1208	CHERUKU SIVARAM PRASAD	LBRCE
10.	17761A1209	CHINNAM HUMANVITHA SAI DHARANI	LBRCE
11.	17761A1210	DATHI SRI CHARAN SAI NAGA TEJA	LBRCE
12.	17761A1211	DESABOINA ESWAR	LBRCE
13.	17761A1212	DIVYA SREE MAJETI	LBRCE
14.	17761A1213	GAJULA RAJA GOPAL	LBRCE
15.	17761A1214	GANDIKOTA SOWMYA MANASA	LBRCE
16.	17761A1215	GANNAVARAPU LAKSHMI	LBRCE
17.	17761A1216	GOPU MRUUDULA SRI	LBRCE
18.	17761A1217	GUDIVADA LAKSHMAN TEJA	LBRCE
19.	17761A1218	GUDURU THARUN RAM KUMAR REDDY	LBRCE
20.	17761A1219	GUNDREDDY REVA DEVI	LBRCE
21.	17761A1220	JONNAKUTI SUGUNA KUMARI	LBRCE
22.	17761A1221	KALLURI NAGA VENKATA SAI BHUVANA	LBRCE
23.	17761A1222	KARNATI GEETHA SUDHA	LBRCE
24.	17761A1223	KETEPALLI JASHNAVI	LBRCE
25.	17761A1224	KETEPALLI UMA HARIKKA	LBRCE
26.	17761A1225	KETHE BALAJI	LBRCE
27.	17761A1226	KILLAMPALLI HEMA NAGAPADMA	LBRCE
28.	17761A1227	KOKKIRI SAI PAVAN KUMAR	LBRCE
29.	17761A1228	KOTAGIRI SRI VENKATA SURYA GOWTHAM	LBRCE
30.	17761A1229	KOTAGIRI SWARUPA	LBRCE
31.	17761A1230	KOTHURU SAI MOUNIKA	LBRCE
32.	17761A1231	KUNKALAGUNTA VAMSI RUDRA VARMA	LBRCE
33.	17761A1232	KURAKULA HARINI	LBRCE
34.	17761A1233	MAGISETTI NEERAJA SAI	LBRCE
35.	17761A1234	MANDA KAVYA	LBRCE
36.	17761A1235	MANDASU BHARGAVI	LBRCE

37.	17761A1236	MATURI SAI TEJA	LBRCE
38.	17761A1237	MENDEM SRIVASTAV	LBRCE
39.	17761A1238	MOHAMMAD MOHSIN ASMA	LBRCE
40.	17761A1239	MOYYA MEGHANA	LBRCE
41.	17761A1240	MUDIGONDLA PAVAN KUMAR	LBRCE
42.	17761A1241	NIDAMANENI RAJYA LAKSHMI	LBRCE
43.	17761A1242	P GAGAN SAI	LBRCE
44.	17761A1243	PALLAPOTHU MANOJ GUPTHA	LBRCE
45.	17761A1244	PEERLA NAGULSHAREEF	LBRCE
46.	17761A1245	PRATHIPATI DILEEP SAGAR	LBRCE
47.	17761A1246	PUCHAKAYALA JAIENDRA REDDY	LBRCE
48.	17761A1247	PUTCHAKAYALA RAGINI	LBRCE
49.	17761A1248	SAGGURTHI SOUNDARYA	LBRCE
50.	17761A1249	SAIKAM PUJITHA	LBRCE
51.	17761A1251	SEELAM SAI DIVYA	LBRCE
52.	17761A1252	SHAIK MANSOOR	LBRCE
53.	17761A1254	THANMAYEE KOGANTI	LBRCE
54.	17761A1255	TIRUMALAPUDI GOPI SAI CHANDU	LBRCE
55.	17761A1256	VAISHNAVA SRI HARSHINI	LBRCE
56.	17761A1257	VARIKUTI ANUSHA	LBRCE
57.	17761A1258	VELIGANDLA CHANDRA SEKHAR	LBRCE
58.	17761A1259	VELPULA SREEJA PRIYARAJ	LBRCE
59.	17761A1260	YADLAPALLI SRI RAM	LBRCE

Head of the Department

INTRODUCTION

Objective of the event: The main objective of this Two- Week Certificate Training Course is teach everyone the advanced python concepts. This Specialization builds on the success of the Python for everybody course and will introduce object oriented programming concepts, numpy, pandas, matplotlib, opencv using the Python programming language. In this course you'll use the technologies learned throughout the Specialization to design and create your own applications for data retrieval, processing, and visualization.

Schedule of the Course:

1. Object-Oriented Programming (OOPs)
   - Class
   - Objects
   - Polymorphism
   - Encapsulation
   - Inheritance

2. Numpy with examples
   - Define numpy
   - Numpy vs list
   - Arrays
   - Applications of numpy
3. Pandas with example
   - Introduction
   - Creating Objects
   - Viewing Data
   - Dataframe
   - Manipulating Data
   - Grouping Data
   - Merging, Joining and Concatenating
   - Working With Text Data,CSV and Excel files
   - Visualization

4. Matplotlib
   - Line plot
   - Bar plot
   - Histogram
   - Scatter plot

5. OpenCV with an example
   - Introduction
   - Working with Images
   - Working with Videos
   - Applications

Registration Fee Details: **No Fee**

E-Certificate will be provided.

Resource Persons:
- **Niharika, Developer at Cognizant**
- **Hemchand, Business analyst at Quantify**

Program Educational Objectives (PEOs):

Four to Five years after successful completion of graduation students will be able to:
- Pursue a successful career in the area of Information Technology or its allied fields.
- Exhibit sound knowledge in the fundamentals of Information Technology and apply practical experience with programming techniques to solve real world problems.
- Demonstrate self-learning, life-long learning and work in teams on multidisciplinary projects.
- Understand the professional code of ethics and demonstrate ethical behavior, effective communication, and team work and leadership skills in their job

TWO WEEK CERTIFICATE TRAINING PROGRAM
ON
"PYTHON FOR EVERYBODY"
PHASE-II
(14th May - 27th May, 2021)

ABOUT THE DEPARTMENT

The Department of IT is established in the year 1999 and offers an undergraduate program in Information Technology. The Department has well qualified faculty and good laboratory facilities. All the laboratories are well equipped with state of the art experimental sets, both in quality and quantity, which brings the number of students per batch of two. The department regularly conducts Guest Lectures / Seminars / Workshops / Technical paper contests for the benefit of both faculty and student community.

Department Vision:
To emerge as one of the most preferred department for the budding engineers, aspiring to be successful IT professionals.

Department Mission:
- To impart quality education with a well-designed curriculum, consistent with industry requirements, that equips the student to face the career challenges.
- To extend the student's learning beyond the curriculum, through workshops on cutting edge technologies.
- To Attract and develop talented and committed human resource, and provide an environment conducive to innovation, creativity, team-spirit.
- To develop life-long learning, ethics, moral values and spirit of service so as to contribute to society through technology.

ABOUT THE INSTITUTE

The LBR College of Engineering (LBRCE) is located at Mylavaram, 40km from Vijayawada on Bhadrachalam highway and is spread over 50 acres of sprawling lush green landscape spotted with orchids and grooves. The place is a hub of leading power plants like VTPS, LANCO Kondapally and Industries like APHMEl, HPCL and Bharath Petroleum.

At LBRCE the focus is on a well balanced approach where most sophisticated infrastructure is supported by a dedicated team of well qualified and experienced faculty. The Management also actively involves in every aspect and career of the faculty and students. LBRCE offers B.Tech Courses in CSE, IT, ECE, EEE, EIE, MECH Engineering and P.G. programmes: M.B.A., M.C.A. & M.Tech Courses in ECE, CSE,IT and Mech. All laboratories are equipped with state of the art facilities backed by advanced computer systems and the latest software. The library has over **30,442 books** spanning **8589 titles**. It subscribes over **100 International Journals, 74 National journals** and **39 Technical and general magazines**. A digital library is a part of this facility with over **4000 VCD collections** produced from IIT'S, EKALAVYA and SONET with **4.5TB of storage capacity server**. The students have access to internet and also to DELNET to supplement their classrooms teaching.

Institute Vision:
To empower students to become technologically vibrant, innovative and emotionally mature and to train them to face the challenges of the quality-conscious globalized world economy.

Institute Mission:
- To provide an environment most conducive to learning and to create a stimulating intellectual atmosphere on the campus.
- To achieve Academic Excellence.

- To ensure a holistic development of personality.
- To spread education to rural areas.
- To establish partnership between Institution & Industry.

ABOUT MYLAVARAM

It is situated at a distance of 45 Km. from Vijayawada. Mylavaram is well connected by rail and road to various places in the state. Participants are advised to alight either at Vijayawada or Kondapalli depending on their travel conveniences.

IMPORTANT INFORMATION

Last Date of Registration : 10-05-2021

Address for Correspondence:
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Sri Lakireddy Bali Reddy,
Chairman
Sri Lakireddy Jaya Prakash Reddy,
Co-Chairman
Sri Lakireddy Prasad Reddy,
Vice-Chairman

Patron
Sri G.Srinivasa Reddy, President
Dr. K. Appa Rao, Principal
Dr. K.Harinadha Reddy, Vice-Principal

Organizing Committee
Coordinator
Mr. V.V. Krishna Reddy,
IT Dept.

Organized by

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