

**MARRI LAXMAN REDDY  
INSTITUTE OF TECHNOLOGY & MANAGEMENT**

p r e s e n t s

# BOOTCAMP

Data Analytics using Advanced Python Programming and R programming

**ORGANIZED BY**

**Dept. of Computer Science and Engineering**



**INSTITUTION'S  
INNOVATION  
COUNCIL**

(Ministry of Education Initiative)



**MLRS**



**MLRITM**

**Innovation and Incubation Centre**

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**DATE :**

17 FEB 2023

**VENUE: SR 404**



# **MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT**

(AN AUTONOMOUS INSTITUTION)

(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)

Accredited by NBA and NAAC with 'A' Grade & Recognized Under Section 2(f) & 12(B) of the UGC act, 1956

## **Dept. of Computer Science and Engineering**

### **BOOTCAMP- Data Analytics Using Advanced Python and R Programming**

**on**

**17<sup>th</sup> Feb 2023**

#### **About BOOTCAMP :**

MLRITM brings to you, one of a kind **BOOTCAMP- Data Analytics Using Advanced Python and R Programming** exclusively for college students.

Today wherever we go, we hear a term called “DataAnalytics” which is creating more buzz in the list of emerging technologies in embraced by many big brands, consumers, and startups paving way for lots of innovation in technology. The motive of this bootcamp is to give students, a flavor to create tech-projects that has a positive social impact using DataAnalytics.

This Bootcamp has the following topics to be covered

#### **Topics:**

- Python Basics – Variables and Built in Types
- Data Processing and Data Visualization Using – Pandas
- Data Processing and Data Visualization Using Numpy
- Data Processing and Data Visualization Using –Matplotlib
- Python Package – TK Inter
- R Basics – Variables and Built in Types
- R – Vectors, Lists, Matrices
- R –Data Frames, Arrays
- R- Graphs

This Bootcamp brings together, the talented and diverse minds from all backgrounds and foster collaboration towards solving the World’s most demanding issues.

**Eligibility Criteria** - This Bootcamp is open only for **college students**.

## Course Objectives:

This course will enable students to:

- To be able to introduce Advanced python programming and program design with R programming language.
- To understand a range of built in methods in Python programming, as well as in-depth Data Processing and Data Visualization methods
- To understand the high-performance programs designed to strengthen the practical expertise.

## Course Outcomes:

**After successful completion of the course, Students will be able to:**

CO No	Course Outcomes	Knowledge Level (Bloom's Taxonomy)
CO 1	<b>Apply</b> the concepts of Object-Oriented Programming in Python.	<b>L3 (Apply)</b>
CO 2	<b>Compare</b> python programming syntax and semantics with R programming and be fluent in the use of the languages for Data Processing and Data Visualization.	<b>L4 (Analyze)</b>
CO 3	<b>Demonstrate how</b> to use the concepts of built in functions.	<b>L2 (Understand)</b>
CO 4	<b>Justify</b> the methods to create and manipulate Python and R programs by utilizing the data structures like lists, dictionaries, tuples and sets.	<b>L5 (Evaluate) and L6 (Create)</b>
CO 5	<b>Observe</b> the commonly used operations involving file systems, GUI and regular expressions.	<b>L2 (Understand)</b>
CO 6	<b>Elaborate and create</b> the need for Data Analytics.	<b>L6 (Create)</b>



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## Dept. of Computer Science and Engineering

### Program Schedule

#### BOOTCAMP- Data Analytics Using Advanced Python and R Programming

17<sup>th</sup> Feb 2023

Day	Time	Session Planned
Day 1	09:30 – 09:40	Registration
Day 1	09:40 - 09:50	Inaugural
Day 1	09:50 -10:20	Python Basics – Variables and Built in Types
Day 1	10:20 – 10:50	Data Processing and Data Visualization Using – Pandas
Day 1	10:50 – 11:10	Data Processing and Data Visualization Using Numpy
Day 1	11:10– 11:40	Data Processing and Data Visualization Using –Matplotlib
Day 1	11:40 - 12:30	Python Package – TK Inter
Day 1	12:30 – 01:00	Lunch Break
Day 1	01:00 – 02:00	R Basics – Variables and Built in Types
Day 1	02:00 -02:30	R – Vectors, Lists, Matrices
Day 1	02:30 – 03:00	R –Data Frames, Arrays
Day 1	03:00 - 04:00	R- Graphs
Day 1	04:00-04:10	Valedictory



# Dept. of Computer Science and Engineering

**BOOTCAMP- Data Analytics Using Advanced Python and R Programming**

## Short listed Candidates -TEAMS

17th Feb 2023

Team	CODE	Registration No	Full Name	Gender	Dept.	Year	Section
1	232B32	207Y1A6703	RAPELLI AKASH	M	DS	3	A
1	232B58	207Y1A1221	ALLAMPATI KUSUMA PRIYA	F	IT	3	A
1	232B01	207Y1A6605	BHUVANA GANGURU	F	AI and ML	3	A
2	232B33	207Y1A6707	BHARGAVI DAVANAPALLY	F	DS	3	A
2	232B08	207Y1A0514	GOUTHAM SOMA	M	CSE	3	A
2	232B02	207Y1A6607	PALAGANI CHARITHA SRI	F	AI and ML	3	A
3	232B34	207Y1A6708	KALVA BHAVANA	F	DS	3	A
3	232B09	207Y1A0517	MADHAM HARSHITH CHANDRA	M	CSE	3	A
3	232B03	207Y1A6620	JODUMUNTHALA NARESH	M	AI and ML	3	A
4	232B35	207Y1A6710	THIPPARAM DATHA SAI	M	DS	3	A
4	232B59	207Y1A1228	ANGOTHU PUSPALATHA	F	IT	3	A
4	232B04	207Y1A6646	SATISH GALIDEVARA	M	AI and ML	3	A
5	232B36	207Y1A6711	DINESH	M	DS	3	A
5	232B62	207Y1A1247	SRINIDHI	F	IT	3	A
5	232B05	217Y5A6606	GINKALA VISHNU	M	AI and ML	3	A
6	232B37	207Y1A6712	GEETHIKA PUTTI	F	DS	3	A
6	232B15	207Y1A0589	NIKILESHWAR RAO	M	CSE	3	B
6	232B27	207Y1A3301	AASRITHA DAKA	F	CSIT	3	A
7	232B38	207Y1A6713	HARI GANGULA	M	DS	3	A
7	232B24	207Y1A05G8	K.SUMALATHA	F	CSE	3	C
7	232B28	207Y1A3329	P.RISHITHA	F	CSIT	3	A
8	232B39	207Y1A6714	GANNAMUNENI HARIKA	F	DS	3	A
8	232B06	207Y1A0505	AMAN AGARWAL	M	CSE	3	A
8	232B29	207Y1A3335	K.SAI KISHORE BABU	M	CSIT	3	A
9	232B40	207Y1A6715	BUSSA HARSHINI	F	DS	3	A
9	232B07	207Y1A0510	SETTI CHARAN SAI	M	CSE	3	A
9	232B30	207Y1A3337	VANAM SAI KUMAR	M	CSIT	3	A
10	232B41	207Y1A6716	HEMANTH RANKIREDDY	M	DS	3	A
10	232B20	207Y1A05D1	HIRANMAI KANDIPATI	F	CSE	3	C
10	232B31	207Y1A3351	AILA SRINIDHI	F	CSIT	3	A
11	232B42	207Y1A6722	THUMU. LAHARIKA	F	DS	3	A
11	232B25	207Y1A05E0	S.MANOJ KUMAR	M	CSE	3	C
11	232B11	207Y1A0523	PALAKALA KUSHUL REDDY	M	CSE	3	A
12	232B43	207Y1A6726	N.MEGHANA SHIVANI	F	DS	3	A
12	232B26	217Y5A0514	SATHWIK REDDY SHYAMAKURI	M	CSE	3	C
12	232B13	207Y1A0542	SHARATH CHANDRA	M	CSE	3	A
13	232B44	207Y1A6728	YARAKAREDDY NAGA SHIVANI	F	DS	3	A
13	232B21	207Y1A05D7	LIKITH GUNNALA	M	CSE	3	C
13	232B16	207Y1A0595	L RENU BHARGAV REDDY	M	CSE	3	B

14	232B45	207Y1A6732	VANKUDOTH PAVAN	M	DS	3	A
14	232B22	207Y1A05F8	ARIGE SHARON ROSE	F	CSE	3	C
14	232B53	207Y1A6754	V VARUN	M	DS	3	A
15	232B46	207Y1A6735	CHINNARAMAIAHGARI PRANAV	M	DS	3	A
15	232B23	207Y1A05G2	DORNALA SNEHALATHA REDDY	F	CSE	3	C
15	232B54	207Y1A6757	JAYI VENKATESH	M	DS	3	A
16	232B47	207Y1A6740	KANAMARLAPUDI SAI PADMA AASHRIT	F	DS	3	A
16	232B19	207Y1A05B5	BOMPALLI SRIKAR	M	CSE	3	B
16	232B55	207Y1A6758	VIJAY BHARATHWAZ	M	DS	3	A
17	232B48	207Y1A6742	CHIRRA SAI TEJA	M	DS	3	A
17	232B18	207Y1A05A4	SARIKA KAPU	F	CSE	3	B
17	232B56	217Y5A6703	NAYAKOTI KARTHIK	M	DS	3	A
18	232B49	207Y1A6746	RAICHUR SAI VARUN	M	DS	3	A
18	232B17	207Y1A05A0	MUKKALA. SAI MEGHANA	F	CSE	3	B
18	232B57	207Y1A1213	V.DURGA PRASAD	M	IT	3	A
19	232B50	207Y1A6749	SRIRAM REDDY	M	DS	3	A
19	232B14	207Y1A0584	Y.SRIVATSA	F	CSE	3	B
19	232B60	207Y1A1231	RUTHVIK BONTAPALLI	M	IT	3	A
20	232B51	207Y1A6751	Y.UDAY KIRAN REDDY	M	DS	3	A
20	232B12	207Y1A0527	MEGHANA ALURI	F	CSE	3	A
20	232B61	207Y1A1238	SANDEEP	M	IT	3	A
21	232B52	207Y1A6750	SUJEETH.N	M	DS	3	A
21	232B10	207Y1A0519	JAHNAVI SAI	F	CSE	3	A

