

COMPLETION REPORT

**TEQIP-III RTU sponsored Student Workshop in Twinning and Mentoring
with JNTU Hyderabad**

on

Data Analytics

23rd August, 2020 to 25th August, 2020

A TEQIP-III RTU sponsored Three days Student Workshop in Twinning and Mentoring with JNTU Hyderabad on Data Analytics was successfully organized by Department of Mechanical Engineering in the Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur 23rd August, 2020 to 25th August, 2020. The workshop had the prime objective to introduce the concept and techniques of Data Analytics which was successfully met by the informative lecture of the Experts. Some other specific objectives which were targeted in this Workshop were:

- To impart the basic concepts of data analytics.
- To provide an exposure to data analytics techniques.
- To impart the basic knowledge of Python
- To provide hands-on-experience to data analytics techniques.

Programme Highlights

- **Number of participants:** In all 105 participants (students) attended the Workshop from the different institutions affiliated to RTU and BTU.
- **Resource Persons:** Following were the key resource persons in this workshop:

S. No.	Name of Faculty	Designation	Organization
1	Dr. Prashant Singh Rana	Assistant Professor	TIET Patiala
2	Mr. Arun Kumar	Assistant Professor	MITS Gwalior
3	Mrs. Divya Khanna	Sr. Data Analyst	ML Tool Tech., Pvt. Ltd.

• **Expert Details**

Expert	Brief Introduction
 <p>Dr. Prashant Singh Rana, Assistant Professor, Thapar University, psrana@gmail.com, 9313889932, 9855764471</p>	<p>Dr. Prashant Singh Rana is presently working as Assistant Professor in Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab. He received his both PhD and Masters (MTech) in Computer Science from ABV - Indian Institute of Information Technology and Management (ABV-IITM), Gwalior. His areas of research are Machine Learning, Deep Learning, Bioinformatics and Optimization. He has published more than 70 research papers in different Journals and conferences. He completed three sponsored projects (in which two projects are sponsored from DST-SERB) and two projects are going on. He has seven patents. He guided seven PhD students and 18 Masters students.</p>
 <p>Mr. Arun Kumar, Assistant Professor, MITS Gwalior, arun.vsrana@gmail.com, 8826708753</p>	<p>Mr. Arun Kumar is presently working as Assistant Professor in Computer Science and Engineering and Information Technology Department at Madhav Institute of Technology and Science, Gwalior. He received M.Tech degree from Thapar Institute of Engineering and Technology, Patiala, Punjab. He is pursuing PhD in Machine Learning from Thapar Institute of Engineering and Technology, Patiala. He has also worked as a research fellow in DST-SERB sponsored research project on Computational Drug Design. His research interests include Machine Learning, Computational Drug Design, Sentiment Analysis.</p>



Mrs Divya Khanna,
Senior Data Analyst,
MLTool Technologies
Pvt Ltd,
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9855321418

Mrs Divya Khanna is presently working as Senior Data Analyst at MLTool Technologies Pvt Ltd. She received her MCA degree from Chitkara University, Punjab. She is pursuing her PhD in Machine Learning and Computational Biology from Thapar Institute of Engineering and Technology, Patiala. Her areas of research are Computational Biology and Machine Learning. She published more than 10 research papers in different Journals and conferences.

• Session Details

The Data Analytics Workshop began on 23rd August 2020 with an inaugural function graced by the presence of Prof. K P Supreethi, JNTU Hyderabad Coordinator, Dr. Harish Sharma, RTU Event Coordinator, Shri Jaipal Meel, Director, SKIT Jaipur, Dr. R K Pachar, Principal SKIT Jaipur, Dr. Dheeraj Joshi, Head of Department, Mechanical Engg, SKIT Jaipur, faculty members and participants (students).

There were various interactive sessions in this workshop programmeme. In total there were 09 lectures of experts including the practical sessions. All the sessions were very interesting and the participants(students) were much eager to learn the data analytics using python.

Details of the sessions are mentioned below:

Dr Prashant Singh Rana, Assistant Professor, Thapar Institute of Technology Patiala introduced the basic concept of Python on the first day as it built a foundation to explore Data Science in Python. On second day he presented Pandas library of Python in a very simple way. On third day he specified different applications of data science. He motivated students for projects on real life problems. He also shared the resources, websites, and information about hackathons and AI environment with participants.

Mr. Arun Kumar from MITS Gwalior introduced data structure used in python on first day. On second day he explained the most effective tool of Data

Visualization i.e. Matplotlib in Python. On third day he introduced the concept of machine learning using scikit.

Mrs. Divya Khanna from ML tools Tech Pvt Ltd taught Data structure like list and dictionary used in Python on first day. On the second day she explained the basics of Data Analytics and on the third day she introduced the most important numerical library of Python i.e. Numpy.

The three days Data Analytics Workshop came to a close on 25 August 2020, with a Valedictory function. The Workshop Coordinator Dr. Achin Srivastav gave the welcome address and presented the report on Data Analytics Workshop.

Prof. K.P. Supreethi, JNTU Coordinator, Hyderabad gave a motivational speech on need of learning Data Analytics during the valedictory programme and encouraged the participants to keep learning Data Analytics. She congratulated the HOD, Department of Mechanical Engineering, SKIT Jaipur for hosting this workshop. She also appreciated Dr. Achin Srivastav for successfully conducting this workshop.

The valedictory function was ended with the vote of thanks from Prof. Dheeraj Joshi, HOD of Mechanical Engineering, SKIT Jaipur. Prof. Dheeraj Joshi thanked all the participants who took great effort in attending all sessions and making the programme a great success. He also acknowledged the efforts of Dr. Achin Srivastav, Coordinator and Dr. Deepak Kumar, Co-Coordinator for their efforts on successfully conducting this workshop. He also praised the efforts of organising team members, Dr. Manoj Kumar Sain, Mr. Vinay Singh Marwal, Mr. Praveen Saraswat, Mr. Brij Mohan Sharma, Mr. Chandan Kumar, Mr. Yogesh Sharma, Ms. Monika Khurana and Ms. Nidhi Srivastav in making this workshop a success. He thanked Prof. K.P. Supreethi, JNTU Coordinator Hyderabad for mentoring and guiding this workshop. He also thanked Dr. Harish Sharma, RTU Event Coordinator for conducting this workshop and providing the guidance and assistance during the workshop. He extended his thanks to Dr. Jaipal Meel for providing all the facilities, assistance, support and encouragement to the department for conducting this workshop. He also thanked Prof. Dharendra Mathur, TEQIP-III Coordinator, for providing the opportunity to SKIT Jaipur to host this programme. He also extended his vote of thanks to Prof., R.A. Gupta, Honorable Vice Chancellor RTU Kota and also the Chief Guest for the Inaugural programme for his vision, efforts, support and encouragement to the institutions in conducting such programmes.

This Workshop was the feather in the cap and it was a milestone and there will be many on the way to come.



RAJASTHAN TECHNICAL UNIVERSITY, KOTA
(Swami Keshvanand Institute of Technology Management and Gramothan Jaipur)
TEQIP-III RTU (ATU) SPONSORED

Student Workshop on “Data Analytics” in Twinning and Mentoring with JNTU Hyderabad
23rd August, 2020 to 25th August, 2020

Venue for the (Online) Workshop: Department of Mechanical Engineering, SKIT Jaipur

WORKSHOP SCHEDULE

Day/Date	Inaugural Session	Session I	Session II	Session III	Valedictory Session
Sunday 23.08.2020	10:00-10:30 AM	10:30 – 11:30 AM Basic of Python and File Handling (Dr Prashant Singh Rana TIET, Patiala)	11:45 – 12:45 PM Data Structure in Python - List and Dictionary (Mrs. Divya Khanna ML Tools Pvt. Ltd)	1:00 – 2:00 PM Data Structure in Python -Tuple and Set (Mr. Arun Kumar, MITS, Gwalior)	
Monday 24.08.2020		4:00 – 5:00 PM Basics of Data Analytics (Mrs. Divya Khanna ML Tools Pvt. Ltd)	5:15 – 6:15 P.M. Data Manipulation using Pandas (Dr Prashant Singh Rana TIET, Patiala)	6:30 – 7:30 PM Data visualization using matplotlib (Mr. Arun Kumar, MITS, Gwalior)	
Tuesday 25.08.2020		4:00 – 5:00 PM NumPy in Python (Mrs. Divya Khanna ML Tools Pvt. Ltd)	5:15 – 6:15 P.M. Machine learning with Python using scikit learn (Mr. Arun Kumar, MITS, Gwalior)	6:30 – 7:30 PM Application of Data Science (Dr Prashant Singh Rana TIET, Patiala)	7:30 -7.45 PM

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Participants (122)

Search

AK Arun Kumar

DK divya khanna

DS Dr. Achin Stivastav

DK Dr. Deepak Kumar

DJ Dr. Dheeraj Joshi

DP Dr.Supreethi K P

HS Harish Sharma

M meeljaipal

monika khurana

PS Prashant Singh

R rameshpachar@rediffmail.com

VM vinay singhrwal marwal

Q&A

This participant joined the meeting from a mobile device.

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Participants (84)

Search

Panel: 7

PS Praveen S... Host, me

AK Arun Kumar

CK chandan Kumar

DS Dr. Achin Stivastav

NS Nidhi Srivastav

PS Prashant Singh

VM vinay singhrwal marwal

Attendee: 77 (7 displayed)

DK deepak ku... ?

RG Rishabh G... ?

NS Nikhil Sha... ?

Q&A

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Participants (62)

Panelist: 8

- PS Praveen Sa... Host, me
- DK Dr. Deepak kumar
- DS Dr. Achin Srivastav**
- DJ Dr. Dheeraj Joshi
- NS Nidhi Srivastav
- PR Prashant Rana
- VM VINAY SINGH MARWAL

Attendee: 54 (0 displayed)

[View all attendees...](#)

Basics of Data Analytics

Presented By:
Mrs Divya Khanna
Senior Data Analyst
MLTool Technologies Pvt Ltd
divyakhanna1991@gmail.com

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Praveen Sa... (Host, me)

Dr. Achin Srivastav

Dr. Dheeraj Joshi

VINAY SINGH MARWAL

Dr. Supreeth K P

Prashant Rana

deepak

mksam1435@gmail.com

Nidhi Srivastav

TEQIP-III RTU sponsored Three days Student Workshop**Participant List**

S.No	Roll No.	Name
1	17ESKME002	ABHAY SINGH GURJAR
2	19ESKME200	ABHISHEK AJMERA
3	19ESKIT004	ADITYA BAGHELA
4	17ESKEE704	ADITYA DADHICH
5	17ESKME011	AJIT SINGH SHEKHAWAT
6	17ESKME702	AKSHAT SUKHWAL
7	17ESKME703	AKSHAY KUMAR
8	17ESKME016	AMAN GOYAL
9	17ESKME017	AMAN JAIN
10	18ESKME012	AMAN KUMAR GUPTA
11	16ESKME021	AMAN PANKAJ
12	17ESKME704	AMAN UBANA
13	18ESKCS018	AMISHA AGGARWAL
14	16ESKME028	ANITA SHARMA
15	18ESKME016	ANSHUL SHARMA
16	17ESKEC013	APARNA MALETI
17	18ESKME018	ARNAV PAREEK
18	17ESKME023	ARPIT CHECHANI
19	17ESKME024	ARUN KUMAR
20	17ESKME027	ASHUTOSH SHARMA
21	18ESKME022	ASIT JAIN
22	18ESKME024	AVINASH SINGH
23	18ESKEC025	BHUSHAN AMETA
24	17ESKEC021	CHARU SHUKLA
25	17ESKME036	DEEPAK KUMAR
26	19ESKEC041	DEVENDRA KAUR
27	18ESKCS049	EKLAVYA JOSHI
28	19ESKCS082	GARVIT JAISWAL
29	19ESKEC049	HANSIKA AGARWAL
30	17ESKME044	HARENDRA POTLIA
31	16ESKCS059	HARMUKH WATTAL
32	18ESKME047	HIMANSHU KUSHWAHA
33	17ESKME054	HIMANSHU NEHRA
34	17ESKME056	HITESH KHATANA
35	18ESKME050	HRITIK GAUR
36	19ESKIT033	JAGRATI SHARMA
37	18ESKME051	JATIN DHYAWANA
38	19ESKME204	JAY KUMAR SHARMA
39	17ESKEE042	JAYESH SINGH SAGAR
40	18ESKME055	JUBER KHAN
41	17ESKME065	KANISHK MAHESHWARI

S.No	Roll No.	Name
42	18ESKME057	KAPIL RAJ TANWAR
43	17ESKME719	KHOOSHAL AGARWAL
44	19ESKIT023	KOMAL JHA
45	17ESKEE047	LAVESH TIWARI
46	18ESKME066	LOVE KUMAR
47	17ESKME722	MADHUR SWAMI
48	16ESKEC048	MAHIMA BHOI
49	18ESKCS093	MANSI PAREEK
50	16ESKME099	MOHD. ZAHID ANSARI
51	18ESKME073	MOHIT TOLANI
52	17ESKME091	MUKUND CHATURVEDI
53	17ESKME092	NADEEM KHAN
54	19ESKRE600	NAMAN CHOUDHARY
55	17ESKME093	NAMAN KUMAR SAIN
56	17ESKME098	NIKHIL KUMAR SHARMA
57	17ESKCS737	NIKHIL SHARMA
58	18ESKCS110	NISHITA TOLANI
59	19ESKEC096	PARUL JAIN
60	18ESKME731	PAVAN KUMAR MEENA
61	18ESKME088	PRADEEP JANGID
62	16ESKCS739	PRANJAL AGARWAL
63	19ESKCS196	RASHIKA JOSHI
64	17ESKCS137	RISHABH GARG
65	18ESKME103	RISHABH SHRIVASTAVA
66	17ESKME350	RITU SINGH
67	18ESKME107	ROSHAN NAMA
68	16ESKCS745	SAGAR MOCHI
69	16ESKCS139	SAKSHI GUPTA
70	18ESKME112	SAMARDEEP SINGH CHOPRA
71	17ESKME134	SANSKAR GUPTA
72	18ESKME114	SARTHAK AGARWAL
73	17ESKME137	SAURABH BOHRA
74	18ESKME747	SHANI SEN
75	18ESKME118	SHEKHAR SHARMA
76	18ESKME120	SHIVAM SHARMA
77	17ESKME141	SHOBHIT SAXENA
78	17ESKME143	SHUBHAM GUPTA
79	17ESKME144	SHUBHAM PAREEK
80	17ESKME145	SHUBHAM SAINI
81	19ESKME166	SHUBHAM SONI
82	17ESKME146	SHYAM SUNDER MEENA
83	18ESKME125	SOURABH KUMAWAT
84	19ESKCE114	SUMIT DANGDA
85	17ESKME152	SUNNY KUMAR AGARWAL
86	17ESKME157	TUSHAR AGARWAL

S.No	Roll No.	Name
87	18ESKME139	VAIBHAV BHARDWAJ
88	18ESKME141	VIKAS KUMAR TANK
89	17ESKME169	VIKAS SUTHAR
90	19ESKCS864	VINAY BANSAL
91	18ESKME144	VIRENDRA SHARMA
92	18ESKME145	VISHAL GUPTA
93	18ESKME146	VISHAL KUMAR SONWAL
94	18ESKME148	VISHNU KUMAR SHARMA
95	18ESKME149	YAGYASHISH CHOUDHARY
96	18ESKME151	YASH MAHESHWARI
97	18ESKME153	YOGENDRA SINGH NARUKA
98	17ESKME178	YOGESH PORWAL
99	17ESKME179	YOGESH VAISHNAV
100	18ESKME154	YOGIT KUMAR