

**Sri Venkateswara College of  
Engineering & Technology**  
RVS NAGAR, CHITTOOR(A.P)-517127  
(AUTONOMOUS)

Department of MCA

**pandas**  
HIERARCHICAL INDEXES



# Python Pandas

By

**Dr. Pushan Kumar Dutta**

**Associate Professor,**

**Amity University, Lucknow**



**Co-ordinated by : Mr. G. Dhanasekar,**  
**Assistant Professor, Department of MCA**

**Two Days Workshop on  
19<sup>th</sup> & 20<sup>th</sup> August, 2019**

# Introduction to the world of pandas

Project has turned out to be much more time-consuming than she initially anticipated. The Clients, who develops and provides content for schools, wants her to find insights into their students' needs by analyzing data that's been collected through various sources. Things would have been much easier had this data been in a single format, but unfortunately, that's not the case. The client has sent her data in multiple formats, including HTML, JSON, Excel, and CSV. She has to extract the relevant information from all these files. These are not the only data sources she'll be working with, though. She also has to access the records of the top-performing and struggling students from a SQLite database so that she can analyze their performance patterns. All these disparate data elements differ in their data types, velocities, frequencies, and volumes. She must now extract different elements from these data sources by slicing, sub setting, grouping, merging, and reshaping the data to get a comprehensive list of features for further analysis. Since the volumes are large, she must also optimize her methods for efficient processing.

Does this scenario sound familiar to you? Are you overwhelmed by the data wrangling tasks that must be performed before the analytics processes? Well, you do not have to struggle anymore. pandas is a Python library that is capable of carrying out all these tasks and more. Over the years, pandas has become the go-to tool for all the preprocessing tasks involved in the life cycle of data analytics.

## Learning objectives

- Tabular data with columns that are capable of storing different types of data (such as numerical data and text data)
- Ordered and unordered series data (an arbitrary sequence of numbers in a list, such as `[2,4,8,9,10]`)
- Multi-dimensional matrix data (three-dimensional, four-dimensional, and so on)
- Any other form of observational/statistical data (such as SQL data and R data)



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**DEPARTMENT OF MCA**

Date: 10-08-2019

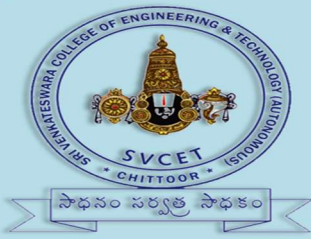
**CIRCULAR**

This is to inform you that the Department of MCA is organizing a TWO DAYS Workshop on “**Python Pandas**” for MCA students. In this connection, All the students are informed to attend the program without fail.

Date & Time: 19<sup>th</sup> and 20<sup>th</sup> August 2019, 9.30 A.M to 5.30 P.M

Venue : E-Class Room , SVCET, Chittoor.

**HOD MCA**



# Sri Venkateswara College of Engineering & Technology

RVS NAGAR, CHITTOOR(A.P)-517127  
(AUTONOMOUS)

## A Report on Two-Day Workshop on “Python Pandas”

organized by Department of MCA

19<sup>th</sup> & 20<sup>th</sup> August 2019.

**Resource Person** : Dr.PushanKumar Dutta, Associate Professor, Amity University, Lucknow

### Target audience

This course is intended for researchers & PG Students that have **at least basic programming skills in Python** (for example, being familiar with concepts such as variables, lists, calling functions, for-loops, ..). It targets researchers that want to enhance their general data manipulation and analysis skills in Python.

For those who have experience in another programming language (e.g. Matlab, R, ...), following an online Python tutorial prior to the course should also suffice.

### Programme

The handling of data is a recurrent task for most scientists, regardless of the field of research. Reading in experimental or survey data, analysing its properties and creating visualisations may become tedious tasks. Hence, increasing the efficiency in this process is beneficial for many scientists.

Spreadsheet based software lacks the ability to properly support this process, due to the lack of automation and repeatability. The usage of a high-level scripting language such as Python is ideal for these tasks.

This course learns students to use Python effectively to do these tasks. The course focuses on data manipulation and cleaning, and explorative analysis using some important Python packages such as Pandas, Numpy and Matplotlib.

The course does **not** aim to provide a course in statistics or machine learning. It aims to provide researchers the means to effectively tackle commonly encountered data handling tasks in order to increase the overall efficiency of the research.

### Day 1. Basic concepts and introduction to Pandas

Setting up the programming environment and an introduction of the Jupyter notebook environment are covered. Some essential concepts of the Python computing language are rehearsed. Then we start with a basic introduction to the data analysis package Pandas, and learn how to import data, inspect the data and perform basic computations and visualisations.

## Day 2. Advanced Pandas

The usage of Pandas for different data cleaning and manipulation tasks is taught and the acquired skills will immediately be brought into practice to handle real-world data sets. Applications include time series handling, categorical data, merging data, group by operations.



  
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The Following Students are Attended for Python Pandas Workshop on  
19<sup>th</sup> and 20<sup>th</sup> August 2019

S.No	Roll no	Name of the Student
1	19785F0001	A NIRANJAN
2	19785F0002	AVULA MANIKANTA
3	19785F0003	BANDUSULA DASTAGIRAMMA
4	19785F0004	BATHULA HAREESH
5	19785F0005	BOYA SUNEETHA
6	19785F0006	C VENKATESH
7	19785F0007	CHALLA SIDWILATHA
8	19785F0008	CHUKKA ASHOK KUMAR
9	19785F0009	G BALASUBRAMANYAM
10	19785F0010	G JAGADEESH
11	19785F0011	GAADI BHARATHREDDY
12	19785F0012	GAJULABALIJA MAHESH
13	19785F0013	GANGIREDDY MADHU
14	19785F0014	GURRALA NAGABABU
15	19785F0015	K DEVAMMA
16	19785F0016	K SACHIN TENDULKAR
17	19785F0017	K THEJA
18	19785F0018	KANALA SHANTHI
19	19785F0019	KANNAREDDIGAR
20	19785F0020	KANNEMADUGU LATHA
21	19785F0021	KILARI REDDY RANI
22	19785F0022	M DHANA LAKSHMI
23	19785F0023	MOOLE CHAITANYA REDDY
24	19785F0024	M RASHIKA
25	19785F0025	MUGALAMARRI SHANMUGA
26	19785F0026	NADENDLA SAI JYOTHI
27	19785F0027	NADIMPALLI REDDIRANI
28	19785F0028	NAGAPPAGARI PALLAVI
29	19785F0029	NALLAPALLI SIVA SANKAR
30	19785F0030	O VINEETHA
31	19785F0031	P KIRANMYE
32	19785F0032	S SANDEEP
33	19785F0034	SHAIK IRFAN
34	19785F0035	SHAIK KAREENA

  
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Department of MCA

**COMMUNICATION SKILLS ON**

**READ**



**READING CAPABILITIES**

**Resource Person**

Dr. M. Pugazandhi, Associate Professor  
Bharathi College of Science  
Sholinghar, Tamil Nadu.



06-09-2019



9.30AM to 5.30PM



S-210 Class Room

**Co-ordinator**

Mr.M.Satish Kumar  
Associate Professor,  
Department of MCA



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Date: 25-8-2019

**CIRCULAR**

This is to inform you that the Department of MCA is organizing a Communication skill on “ **Reading Capabilities** ” for II Year, IV Semester MCA students. In this connection, you are intimated to attend the programme.

Date & Time: 6-09- 2019 10.00 A.M to 5.30 P.M

Venue : S-210 Class Room

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**DEPARTMENT OF MCA**

THE FOLLOWING STUDENTS ARE ENROLLED FOR “READING CAPABILITIES”

S.NO.	ROLLNO	NAME OF THE STUDENTS	06-09-2019
1	19781F0001	A.HARI KISHORE REDDY	
2	19781F0002	R.ARUN KUMAR	
3	19781F0003	B.SRIKANTH	
4	19781F0004	B.POOJA	
5	19781F0005	B.PRAKASH	
6	19781F0006	B.YAMUNA	
7	19781F0007	B.ASHWINI	
8	19781F0008	C.SAI MITHRA REDDY	
9	19781F0009	D. DEVARAJULU	
10	19781F0010	G.MAHESH	
11	19781F0011	J.ARUN KUMAR	
12	19781F0013	K RAGHAVENDRA NAIDU	
13	19781F0014	K.PRUDHVI	
14	19781F0015	K.MANOJ KUMAR	
15	19781F0016	L.RAJYALAKSHMI	
16	19781F0017	M.YUVADURGA	
17	19781F0018	M.DHAMODHAR	
18	19781F0019	M.BHUVANESWAR KUMAR REDDY	
19	19781F0020	N.NIKHITHA	
20	19781F0021	P.G. AJAY KUMAR	
21	19781F0022	P.HEMANTH KUMAR REDDY	
22	19781F0023	R.PUSHPAJA	
23	19781F0024	S.SUDARSHAN REDDY	
24	19781F0025	T.YOGAKSHI	
25	19781F0026	V.M.NANDINI	
26	19781F0027	G.PRASAD	

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9-9-2019

**Report on “ Reading Skills”**

Communication skill on **Reading Capabilities** was successfully conducted in the SVCET (A) on **6<sup>th</sup> September 2019** by Department of Computer Applications . The programme received an overwhelming response with 26 participants from SVCET.

**Date: 6-09-2019**

**Inaugural Session**

The programme was inaugurated in the morning at S-210 MCA Class Room on 6th sep 2019 by hands of Dr M Pogazandhi Associate professor (Resource Person), Dr M. Mohan Babu (Principal, Svcet) & Prof. E. Lokanadha Reddy (Vice principal) Mr. N SendhilKumar (HOD MCA) Mr M. Satish Kumar (Coordinator).

During the discussion resource person explain the concept of top-down reading model is based on the philosophy that the brain and reader are at the centre of understanding and succeeding. This method argues that readers bring an understanding to the print, not print to the reader.

In other words, the experiences a reader has help him or her to read, decode, and make sense of text. This model does not focus on phonics and decoding, but instead, allows children opportunities to read 'real' books and make sense of them. Finally, the top-down method utilizes making sense of grammar and text clues to figure out unknown words.

A different approach is the **bottom-up** method. Bottom up focuses on direct instruction of phonics, such as identifying features of letters, like curves and straight lines, to recognize them. From there students will begin combining letters to read and write words. They then become familiar with spelling patterns and learn to read sentences, paragraphs and longer texts. At the end Expression of sincere gratitude was given by Programme Co-ordinator

**CO-ORDINATOR**

**HOD**



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**Department of MCA**



**SOFT SKILLS PROGRAMME ON TEAM WORK**

**RESOURCE PERSON**

**Mrs. A. Lokanayaki, Assistant Professor**  
Department of Humanities and Science  
Mother Theresa College of Engineering and Technology  
Palamaner



10-07-2019



9.30AM to 5.30PM



S-210 Class Room

**Co-ordinator**

**Mr. M. Satish Kumar**  
Associate Professor,  
Department of MCA



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**Department of MCA**

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Date: 30-06-2019

**CIRCULAR**

This is to inform you that the Department of MCA is organizing on “SOFT SKILLS PROGRAMME ON TEAM WORK” for III MCA-V Semester students. In this connection, you are invited to attend the programme.

Date & Time: 10<sup>th</sup> July 2019, 9.30 A.M to 5.30 P.M

Venue : S-210 Class Room

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**Department of MCA**

The following students are registered for Team work

S.no	Rollno	Name of the Students	10-07-2019
1	19785F0001	A NIRANJAN	
2	19785F0002	AVULA MANIKANTA	
3	19785F0003	BANDUSULA DASTAGIRAMMA	
4	19785F0004	BATHULA HAREESH	
5	19785F0005	BOYA SUNEETHA	
6	19785F0006	C VENKATESH	
7	19785F0007	CHALLA SIDWILATHA	
8	19785F0008	CHUKKA ASHOK KUMAR	
9	19785F0009	G BALASUBRAMANYAM	
10	19785F0010	G JAGADEESH	
11	19785F0011	GAADI BHARATHREDDY	
12	19785F0012	GAJULABALIJA MAHESH	
13	19785F0013	GANGIREDDY MADHU	
14	19785F0014	GURRALA NAGABABU	
15	19785F0015	K DEVAMMA	
16	19785F0016	K SACHIN TENDULKAR	
17	19785F0017	K THEJA	
18	19785F0018	KANALA SHANTHI	
19	19785F0019	KANNAREDDIGARI	
20	19785F0020	KANNEMADUGU LATHA	
21	19785F0021	KILARI REDDY RANI	
22	19785F0022	M DHANA LAKSHMI	
23	19785F0023	MOOLE CHAITANYA REDDY	
24	19785F0024	M RASHIKA	
25	19785F0025	MUGALAMARRI SHANMUGA	
26	19785F0026	NADENDLA SAI JYOTHI	
27	19785F0027	NADIMPALLI REDDIRANI	
28	19785F0028	NAGAPPAGARI PALLAVI	
29	19785F0029	SANKAR REDDY	
30	19785F0030	O VINEETHA	
31	19785F0031	P KIRANMYE	
32	19785F0032	S SANDEEP	
33	19785F0034	SHAIK IRFAN	
34	19785F0035	SHAIK KAREENA	
35	19785F0036	SHAIK MOHAMMADARIF	

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**12-7-2019**

**Report on Team work Management**

A one-day soft skill programme on Team work management was successfully conducted in the SVCET (A) on 10th July 2019 by Department of Computer Applications. The programme received an overwhelming response with 35 participants from SVCET.

**Date: 10th July 2019**

**Inaugural Session**

The programme was inaugurated in S-210 MCA Class Room on 10th July 2019 by hands of Mrs A Lokananyaki Asst.prof (Resource Person), Prof. K. L Narayana (Director, SVCET), Dr.M. Mohanbabu (Principal, Svcet) & Prof. E. Lokanadha Reddy (Vice principal) Mr.N SendhilKumar (HOD MCA) Mr M.Satishkumar (Coordinator).

During the session Resource person delivered a content with clear Example such as Teamwork and Leadership: Our students will demonstrate the ability to lead and productively participate in group situations. Knowledge Application: Our students will be able to apply quantitative and qualitative knowledge to solve problems and make decisions. Ethics: Students will understand the role of business ethics when solving problems and making decisions. Oral Communication: Students will demonstrate an ability to use oral communication effectively.

At the end Expression of sincere gratitude was given by Programme Co-ordinator

**CO-ORDINATOR**

**HOD**



Discussion



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Department of MCA



**R PROGRAMMING**

**Resource Person**

Mr. Srinivasan Ramanujam  
Founder & CEO  
Mundhra Software Services, Vellore.



29-05-2019 &

30-05-2019



9.30AM to 5.30PM



Smt.Lakshmi Devi Memorial Auditorium

**Co-ordinator**

Mr. M. Satish Kumar  
Associate Professor,  
Department of MCA



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**DEPARTMENT OF MCA**

Date: 19-05-2019

**CIRCULAR**

This is to inform you that the Department of MCA is organizing a Technical skill counselling on “**R-Programming**” for III Year, V Semester MCA students. In this connection, you are instructed to attend the programme.

Date & Time: 29<sup>th</sup> May 2019 & 30<sup>th</sup> May 2019, 9.30 A.M to 5.30 P.M

Venue : Smt. Lakshmi Devi Memorial Auditorium, SVCET, Chittoor.

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**DEPARTMENT OF MCA**

**29-05-2019**

The following students are Registered for R-Programming

S.NO	ROLLNO	STUDENT NAME	29-05-2019	30-05-2019
1	19785F0011	GAADI BHARATHREDDY		
2	19785F0012	GAJULABALIJA MAHESH KUMAR		
3	19785F0013	GANGIREDDY MADHU		
4	19785F0014	GURRALA NAGABABU		
5	19785F0015	K DEVAMMA		
6	19785F0016	K SACHIN TENDULKAR		
7	19785F0017	K THEJA		
8	19785F0018	KANALA SHANTHI		
9	19785F0019	KANNAREDDIGARI REDDISWARI		
10	19785F0020	KANNEMADUGU LATHA		
11	19785F0021	KILARI REDDY RANI		
12	19785F0022	M DHANA LAKSHMI		
13	19785F0023	MOOLE CHAITANYA REDDY		
14	19785F0024	M RASHIKA		
15	19785F0025	MUGALAMARRI SHANMUGA		
16	19785F0026	NADENDLA SAI JYOTHI		
17	19785F0027	NADIMPALLI REDDIRANI		
18	19785F0028	NAGAPPAGARI PALLAVI		
19	19785F0029	NALLAPALLI SIVA SANKAR		
20	19785F0030	O VINEETHA		
21	19785F0031	P KIRANMYE		
22	19785F0032	S SANDEEP		
23	19785F0034	SHAIK IRFAN		
24	19785F0035	SHAIK KAREENA		
25	19785F0036	SHAIK MOHAMMAD ARIF		
26	19785F0037	THOTA SRAVANI		
27	19785F0038	UPPARA BALAJI		
28	19785F0039	VANILLU ASMITHA		
29	19785F0040	VANKADARI HARIKA		
30	19785F0041	VEERABALLI PURUSHOTHAM		
31	19785F0042	VEMPALLI HEENA		
32	19785F0043	RAMYA		

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**REPORT on R-Programming**

A two days Technical skill programme on R-programming was successfully conducted in the SVCET (A) on 29th & 30th May 2019 by Department of Computer Applications. The programme received an overwhelming response with 32 participants from SVCET.

**Date wise brief Report for each of the 2- day programme is given below with the**

**Date: 29 & 30<sup>th</sup> May 2019:**

**Inaugural Session**

The programme was inaugurated in the morning at auditorium on 29th May 2019 by hands of Mr Srinivasa Ramanujan (Resource Person), Prof. Kotaiah (Director, SVCET), Prof. E. Lokanadha Reddy (principal) Mr. N SendhilKumar (HOD MCA) Mr M Satish kumar (Coordinator) In welcome speech, Hon.Principal Dr M. MohanBabu shared his views with the faculty participants that if students want to develop themselves.

**Day-1 29-05-2019**

During Day 1 discussion Resource person give brief note on R is an open-source programming language Exemplary Support for Data Wrangling. R provides exemplary support for data wrangling The Array of Packages Quality Plotting and Graphing.

**Day-2 30-05-2019**

During Day 2 discussion Resource person give brief note on Highly Compatible, Platform Independent. Eye-Catching Reports, Machine Learning Operation

At the end Expression of sincere gratitude was given by Programme Co-ordinator

**CO-ORDINATOR**

**HOD**

Session Inaugural:



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Department of MCA

**TECHNICAL PROGRAMME ON**



**MACHINE LEARNING**

**Resource Person**

**Dr N. Senthil Kumar, Associate Professor**  
VIT University, Vellore  
Department of Computer Science and Applications



18-03-2019



9.30AM to 5.30PM



Smt.Lakshmi Devi Memorial Auditorium

**Co-ordinator**

**Mr.M. Satish Kumar**

Associate Professor,  
Department of MCA



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Date: 10-03-2019

**CIRCULAR**

This is to inform you that the Department of MCA is organizing a Technical Program on “Machine Learning” for III Year, V Semester MCA students. In this connection, you are intimated to attend the programme.

Date & Time: 18 -03-2019, 9.30 A.M to 5.30 P.M

Venue : Smt. Lakshmi Devi Memorial Auditorium, SVCET, Chittoor.

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**The Following students are Attended for Technical program on Machine Learning**

<b>S.No</b>	<b>Roll no</b>	<b>Name of the Student</b>	<b>18-03-2019</b>
1	19785F0001	A NIRANJAN	
2	19785F0002	AVULA MANIKANTA	
3	19785F0003	BANDUSULA DASTAGIRAMMA	
4	19785F0004	BATHULA HAREESH	
5	19785F0005	BOYA SUNEETHA	
6	19785F0006	C VENKATESH	
7	19785F0007	CHALLA SIDWILATHA	
8	19785F0008	CHUKKA ASHOK KUMAR	
9	19785F0009	G BALASUBRAMANYAM	
10	19785F0010	G JAGADEESH	
11	19785F0011	GAADI BHARATHREDDY	
12	19785F0012	GAJULABALIJA MAHESH	
13	19785F0013	GANGIREDDY MADHU	
14	19785F0014	GURRALA NAGABABU	
15	19785F0015	K DEVAMMA	
16	19785F0016	K SACHIN TENDULKAR	
17	19785F0017	K THEJA	
18	19785F0018	KANALA SHANTHI	
19	19785F0019	KANNAREDDIGAR	
20	19785F0020	KANNEMADUGU LATHA	
21	19785F0021	KILARI REDDY RANI	
22	19785F0022	M DHANA LAKSHMI	
23	19785F0023	MOOLE CHAITANYA REDDY	
24	19785F0024	M RASHIKA	
25	19785F0025	MUGALAMARRI SHANMUGA	
26	19785F0026	NADENDLA SAI JYOTHI	
27	19785F0027	NADIMPALLI REDDIRANI	
28	19785F0028	NAGAPPAGARI PALLAVI	
29	19785F0029	NALLAPALLI SIVA SANKAR	
30	19785F0030	O VINEETHA	
31	19785F0031	P KIRANMYE	
32	19785F0032	S SANDEEP	
33	19785F0034	SHAIK IRFAN	
34	19785F0035	SHAIK KAREENA	
35	19785F0036	SHAIK MOHAMMADARIF	



36	19781F0001	A.HARI KISHORE REDDY	
37	19781F0002	R.ARUN KUMAR	
38	19781F0003	B.SRIKANTH	
39	19781F0004	B.POOJA	
40	19781F0005	B.PRAKASH	
41	19781F0006	B.YAMUNA	
42	19781F0007	B.ASHWINI	
43	19781F0008	C.SAI MITHRA REDDY	
44	19781F0009	D. DEVARAJULU	
45	19781F0010	G.MAHESH	
46	19781F0011	J.ARUN KUMAR	
47	19781F0013	K RAGHAVENDRA NAIDU	
48	19781F0014	K.PRUDHVI	
49	19781F0015	K.MANOJ KUMAR	
50	19781F0016	L.RAJYALAKSHMI	
51	19781F0017	M.YUVADURGA	
52	19781F0018	M.DHAMODHAR	
53	19781F0019	M.BHUVANESWAR KUMAR	
54	19781F0020	N.NIKHITHA	
55	19781F0021	P.G. AJAY KUMAR	
56	19781F0022	P.HEMANTH KUMAR REDDY	
57	19781F0023	R.PUSHPAJA	
58	19781F0024	S.SUDARSHAN REDDY	
59	19781F0025	T.YOGAKSHI	
60	19781F0026	V.M.NANDINI	
61	19781F0027	G.PRASAD	



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19-3-2019

**Report on Machine Learning**

Technical program on Machine Learning was successfully conducted in the SVCET (A) on 18-03-2019 by Department of Computer Applications. The programme received an overwhelming response with 61 participants from SVCET.

**Date: 18 - 03 - 2019**

**Inaugural Session**

The programme was inaugurated Smt. Lakshmi Devi Memorial Auditorium on 18th March 2019 by hands of Dr Senthil Kumar Associate Professor (Resource Person), Prof. K.L Narayana (Director, SVCET), Dr.M.MohanBabu (Principal, Svcet) & Prof. E. Lokanadha Reddy (Vice principal) Mr. N SendhilKumar (HOD MCA) Mr M.Satishkumar (Coordinator).

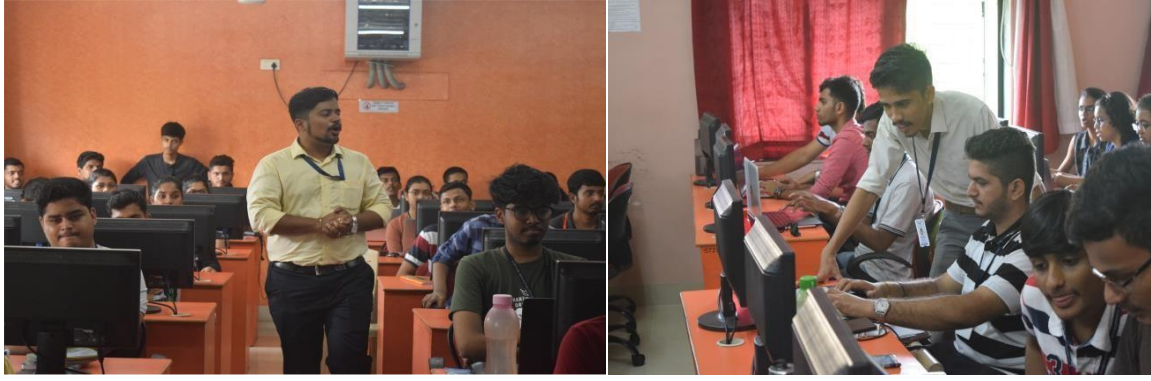
During the session Resource person discuss about Machine Learning is an application of AI which allows computers to automatically learn from data without being explicitly programmed. Python has been designed with the provision for creating Machine Learning algorithms.

Students could learn to gain the knowledge of variety of learning algorithms. Understand how to evaluate models generated from data. Apply the algorithms to a real problem, optimize the models learned and report on the expected accuracy that can be achieved by applying the models.

At the end Expression of sincere gratitude was given by Programme Co-ordinator

**Co-ordinator**

**HOD**



Discussion