

COLLEGE OF ENGINEERING AND TECHNOLOGY

Thirupachur-63 1203, Tiruvallur TK & DT Approved by AICTE New Delhi & Affiliated to Anna University, Chennai (A Telugu Winority Institution)

18CSEVAC02 - EXPLORATORY DATA ANALYSIS FOR MACHINE LEARNING EVENT REPORT

Name of the Course: Exploratory Data Analysis for Machine Learning

Name of the Instructor: 1. Mrs. Uma. V

2. Mrs.M. Divya

Year and Branch: III, IV & ME-CSE - COMPUTER SCIENCE AND ENGINEERING

Duration of Course: 32 Hrs (11.02.2019 to 16.02.2019)

SUMMARY OF THE EVENT:

The Course was inaugurated on 11.02.2019 at 8.30 am by our respectable Principal and HOD. As per the Course plan session was started and went smooth for the Remaining days. On the last day 16.02.2019 by 3.30 pm the course was Completed Successfully.

During the Six Days of the program Students were participated with enthusiasm and they finally gained Knowledge on "Exploratory Data Analysis for Machine Learning"

ASSESMENT MODE:

No of Students Enrolled: 65

Scheme of Exam: Offline

No of Students appeared: 65

No of Students Passed: 65

Date of Exam: 16.02.2019

OUTCOME:

This course covered the fundamental concepts of "Exploratory Data Analysis for Machine Learning". They released the importance of good, quality data. Also get familiarize with the common technique to retrieve your data, clean it, apply feature engineering, and have it ready for preliminary analysis

and hypothetical testing.

COORDINATOR

(Mrs.M.Divya)

PRINCIPAL
Sri Venkateswara College of
Engineering and Technology,

Thirupachur, Thiruvallur - 631 201. P. Rethinasabapathy)



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18CSEVAC02 - EXPLORATORY DATA ANALYSIS FOR MACHINE LEARNING



Value Added Course on "Exploratory Data Analysis for Machine Learning" Handled by Mrs.Uma. V AP/SVCET and Mrs.M. Divya AP/SVCET





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Permitted

REQUEST LETTER

From

Mr.P. Rethinasabapathy

HOD /CSE

SVCET

Thirupachur.

To

The Principal

SVCET

Thirupachur.

Respected sir,

Sub: Requesting permission to conduct a 6 Days value added course -Reg

As the Head of Computer Science and Engineering Department, I would like to request your support and permission to conduct Training Program on "Exploratory Data Analysis for Machine Learning" in our department. There is a need that has been identified of keeping the students up to date with the new technologies. Most students would not have knowledge on this area which is not our available in our curriculum. So, there is need for a there is need for this program to challenge the IT opportunities.

The dates for the Training program have been fixed. The Training will start on 11.02.19 and end on 16.02.19 (32Hrs). Will be handled by Mrs. Uma.V AP/CSE, SVCET and Mrs.M. Divya AP/CSE, SVCET. I kindly request your assistance in providing Tea and snack for the participants (students).

Please find the attached Invitation, circular to students, and a presentation highlighting the key areas that will be focused in the Training program.

HOD/CSE

(Mr.P.Rethinasabapathy)

Thanking You

PRINCIPAL (Dr.J.Venkatesh)



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01.02.2019

CIRCULAR

The department of Computer Science and Engineering will be conducting value added course on "Exploratory Data Analysis for Machine Learning" from 11.02.2019 to 16.02.2019 (32 Hrs). It is proposed to keep the students up to date with the new technologies.

All the students are requested to participate actively, certificate will be provided for the enrolled Participants.

All the interested candidates should enroll their names to Mrs. Uma. V, Assistant Professor, Department of Computer Science and Engineering on or before **08.02.2019**.

HOD/CSE

(Mr.P.Rethinasabapathy)

PRINCIPAL (Dr.J. Venkatesh)

PRINGIPAL Sri Venkateswara College of

Engineering and Technology, Thirupachur, Thiruvallur - 631 203





THIRUPACHUR - 631203, THIRUVALLUR TK , & DT APPROVED by AICTE, New Delhi and Affiliated to Anna University, Chennai,

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING "EXPLORATORY DATA ANALYSIS FOR MACHINE LEARNING"

Date: 11.02.2019 - 16.02.2019

RESOURCE PERSON

1. Mrs. V. Uma, AP/CSE, SVCET

2. Mrs. M. Divya, AP/CSE, SVCET

Mr. P. Rethinasabapathy

HOD / CSE



Sri Venkateswara College of Venkatesh Engineering and Technology

Jhirupachur, Thiruvallur - 631 203

PRINCIPAL



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18CSEVAC02- "EXPLORATORY DATA ANALYSIS FOR MACHINE LEARNING"

RESOURCE PERSON PROFILE

Resource person 1

Name

: Mrs. Uma. V

Designation

: Assistant Professor

Department

: Computer Science and Engineering

Organization

: SVCET

Phone Number

: 9940675220

Email.ID

: uma006@gmail.com

Qualification

: ME

Experience

: 15 Years

Resource person 2

Name

: Mrs.M. Divya

Designation

: Assistant Professor

Department

: Computer Science and Engineering

Organization

: SVCET

Phone Number

: 8056053339

Email.ID

: divyamars 10@gmail.com

Qualification

: ME

Experience

: 6 years





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18CSEVAC02 - EXPLORATORY DATA ANALYSIS FOR MACHINE LEARNING COURSE CONTENT

Objective

• To study and familiarize the core concepts of EDA for machine learning.

Module 1: Introduction

Introduction to Artificial Intelligence and Machine Leaming-Machine Leaming and Deep Leaming-Modern AI and applications-Retrieving Data from CSV and JSON file -Retrieving Data from Databases- AP is, and the Cloud Reading Data Jupiter Notebook-Reading in Database Files-Data Cleaning, Handling Missing Values and Outliers.

Module 2: EDA practices

Handling Missing Values and Outliers using Residuals-Introduction to Exploratory Data Analysis (EDA)-EDA with Visualization-Grouping Data for EDA-EDA Notebook -Feature Engineering and Variable Transformation - Background- Variable Transformation-Feature Encoding-Feature Scaling.

Module 3: Transforming the variables

Common Variable Transformations in Python- Feature Engineering-Estimation-Introduction to Hypothesis- Hypothesis Testing Examples-Significance Level and P-Values--Significance Level and P-Values and the F Statistic- Correlation vs. Causation.

Outcomes:

- 1. Concepts of artificial intelligence and machine learning.
- 2. Different practices for exploratory data analysis.
- 3. Need and significance of variable transformations.

COORDINATOR

(Mrs.M. Divya)



PRINCIPAL
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Thirupachur, Thiruvallur - 631 203

HOD/ČSE

(Mr.P.Rethinasabapathy)



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18CSEVAC02 - EXPLORATORY DATA ANALYSIS FOR MACHINE LEARNING

COURSE SCHEDULE

		1	ratory Data Analysis for Machine Learning
Day &	Session &	Speaker Name	Session Topics
Date	Time		*
	8.30 am to	Mrs. Uma. V, AP/CSE	Introduction to Artificial Intelligence and Machine
Day 1	10.30am		Leaming
Day 1	10.45 am to	Mrs.M. Divya, AP/CSE	Machine Leaming and Deep
& 11.02.19	12.45 pm		
11.02.19	1.30 pm to	Mrs. Uma. V, AP/CSE	Leaming Modern AI and applications
	3.30pm		
	8.30 am to	Mrs.M. Divya, AP/CSE	Retrieving Data from CSV and JSON file -Retrieving
	10.30am		Data from Databases
Day 2	10.45 am to	Mrs. Uma. V, AP/CSE	AP is, and the Cloud Reading Data Jupiter Notebook
&	12.45 pm		
12.02.19	1.30 pm to	Mrs.M. Divya, AP/CSE	Reading in Database Files Data Cleaning, Handling
	3.30pm		Missing Values and Outliers
	8.30 am to	Mrs. Uma. V, AP/CSE	
	10.30am	Mis. Olia. V, AP/CSE	Handling Missing Values and Outliers using Residuals
Day 3	10.30am to	Mrs.M. Divya, AP/CSE	Introduction to Explanatous Data Analysis (EDA)EDA
&	12.45 pm	Wils.Wi. Divya, AF/CSE	Introduction to Exploratory Data Analysis (EDA)EDA with Visualization
13.02.19	1.30 pm to	Mrs. Uma. V, AP/CSE	Grouping Data for EDA EDA Notebook Background
		Wils. Ollia. V, AF/CSE	Variable Transformation
	3.30pm 8.30 am to	Mac M. Diamo AD/CCE	
Day 4	10.30am	Mrs.M. Divya, AP/CSE	Feature Engineering and Variable Transformation
&	10.30am 10.45 am to	Mag Lines V AD/CCE	Continue Europiine Fratuus Continue
14.02.19		Mrs. Uma. V, AP/CSE	Feature Encoding Feature Scaling
	12.45 pm 8.30 am to	Mrs.M. Divya, AP/CSE	Common Variable Tourse formations in Both
Day5		Wirs.M. Divya, AP/CSE	Common Variable Transformations in Python
&	10.30am	Mag Lines V AD/CCE	Esstant Fusing size Fatigue 4: Literature 4: 1
15.02.19	10.45 am to	Mrs. Uma. V, AP/CSE	Feature Engineering-Estimation-Introduction to
	12.45 pm 8.30 am to	Mrs M Divisio AD/CCE	Hypothesis Hymothesis Testing Fuggerles Significance
	8.30 am to 10.30am	Mrs.M. Divya, AP/CSE	Hypothesis Testing Examples-Significance
Day6		Mrs. IIma V AD/CCD	Lavial D. Valuar Cianiff conser Lavial D. Valuar 14
&	10.45 am to	Mrs. Uma. V, AP/CSE	Level P Values Significance Level and P-Values and the
16.02.19	12.45 pm	Mar M Diagram AD/CCD	F Statistic
	1.30 pm to	Mrs.M. Divya, AP/CSE	Correlation vs. Causation and test
	3.30 pm		

COORDINATOR

(Mrs.M. Divya)



PRINCIPAL HOD/CSE
Sri Venkateswara College of Engineering and Technologyhinasabapathy)

Thirupachur, Thiruvallur - 631 203



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18CSEVAC02-EXPLORATORY DATA ANALYSIS-FOR MACHINE LEARNING

Course Code	18CSEVAC02
Name of the Course	EXPLORATORY DATA ANALYSIS FOR MACHINE LEARNING
Duration of the Course	32 HOURS
Academic Year	2018-19
Period of the Course	11.02.2019 to 16.02.2019

LIST OF STUDENTS ENROLLED

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		112416104022	MAHALAKSHMI.M	Mahala Kehmi
4	III	112416104023	MOHANAVALLI.T	Markens
	III	112416104024	NAGAJOTHI.K	Dogotophi 10
5	III	112416104025	NIKITHA AS	VE RITTO
6	III	112416104026	NIVEDITHA S	Nice that.
7	III	112416104027	PAVITHRA.V	Data Lloyd .
8	Ш	112416104028	PAVITHRA.V	Par Exton.
9	III	112416104029	POOVIZHI.D	Peore zhil
10	III	-112416104030	PREETHA.B	Parcet hi
11	III	112416104031	PRITHIYA.M	Drilling a. m
12	III	112416104032	RAMYA.A	RamyerA
13	III	112416104034	RUPAN KUMAR S	Pullani
14	III	112416104035	SABARISAN.P	Sabaryan D
15	III	112416104036	SANJAY.K	San Bul
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17	Ш	112416104038	SEDHU GANGA.P	Digither Grango
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19	III	112416104041	SUMAN RAJ.R	R. Suman
20	III	112416104042	SURALAKSHMI.V	SDP 99 401
21	III	112416104044	SWATHY ATCHAYAA.B	CLA
22	III	112416104045	SWETHA,M	Furotere
23	III	112416104046	SWETHA.M	Slavellag M
24	III	112416104048	THULASI RAMAN	Thursina N
25	III	112416104049	VASANTH.V	Yourseller N
50	III	112416104050	VENNILA.M. G	NO IPAHarika
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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	S SIGNATURE
29	III	112416104053	YUVARAJ.N	N. Veuraraj
30	III	112415104002	ARUN KUMAR A	Ach
31	III	112415104003	BALAJIN	1301071 N
32	III	112415104004	CHINNARASU D	D. Chimosey
33	IV	112415104007	DHARSHNI K-N	N.K. Dhazain
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36	IV	112415104011	GIRIDHARAN D	D 60 . 50
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38	IV	112415104015	KEERTHANA V	Video
39	IV	112415104016	KISHORE KUMAR B	R. Liel . L
40	IV	112415104018	LILLY ABIRAMI K	Dilust k
41	IV	112415104019	MONIKA P	Manile.
42	IV	112415104021	MUTHAZHAGI P	2 million
43	IV	112415104023	POONKUZHALIS	S D
44	IV	112415104025	PUSHPARANI M	M n la s
45	IV	112415104026	SANGEETHA J	Sangatha
46	IV	112415104027	SHOBANA M	Shathann N
47	IV	112415104028	SOMESHWARAN M	M. somenilly
48	IV	112415104032	SRINIVAAS M	0
49	IV	112415104033	SRINIVASA PRABHU V	Stransan
50	IV	112415104035	SUHAS NITIN KANNA M	M. Sahas
51	IV	112415104037	VARALAKSHMIS	S. Vocalatili
52	IV	112415104038	VASANTH G	Cy. Nalana
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55	IV	112415104038	VASANTH G	G. Varanth
56	IV	112415104039	VIGNESH R	n
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58	ME-CSE	112418405006	RAJESHR	B Washir
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63	ME-CSE	112417405006	JAKKAMPUDI DEDEEPYA	A. Jakhan





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64	ME-CSE	112417405008	MYSHALINI D	MySholini >
65	ME-CSE	112417405012	SHERINE MONISHA S	3. Sherry

COORDINATOR

(Mrs.M. Divya)

(Mr.P.Rethinasabapathy)



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18CSEVAC02-EXPLORATORY DATA ANALYSIS FOR MACHINE LEARNING

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Name of the Course	EXPLORATORY DATA ANALYSIS FOR MACHINE LEARNING
Duration of the Course	32 HOURS
Academic Year	2018-19
Period of the Course	11.02.2019 TO 16.02.2019

ATTENDANCE

S.	YE	REGISTER	NAME OF STUDENIES	11.0)2.19	12.0	2.19	13.0	2.19	14.0	2.19	15.0	2.19	16.0	02.19	TOTAL
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S. YE	REGISTER		11.02.19		12.02.19		13.02.19		14.02.19		15.02.19		16.02.19			
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(Mrs.M. Divya)

(Mr.P.Rethinasabapathy)

Thirupachur



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18CSEVAC02 - EXPLORATORY DATA ANALYSIS FOR MACHINE LEARNING

TEST QUESTION

- 1. Which of the following gave rise to need of graphs in data analysis?
 - a) Data visualization
 - b) Communicating results
 - c) Decision making
 - d) All of the mentioned
- 2. Which of the following is characteristic of exploratory graph?
 - a) Made slowly
 - b) Axes are not cleaned up
 - c) colour is used for personal information
 - d) All of the mentioned
- 3. Point out the incorrect statement.
 - a) coplots are one dimensional data graph
 - b) Exploratory graphs are made quickly
 - c) Exploratory graphs are made relatively less in number
 - d) All of the mentioned
- 4. Which of the following graph can be used for simple summarization of data?
 - a) Scatterplot
 - b) Overlaying
 - c) Bar plot
 - d) All of the mentioned
- 5. Colour and shape are used to add dimensions to graph data.
 - a) True
 - b) False
- 6. Which of the following information is not given by five-number summary?
 - a) Mean
 - b) Median
 - c)Mode
 - d) All of the mentioned
- 7. Which of the following is also referred to as overlayed ID plot?
 - a) lattice
 - b) bar plot
 - c) gplot
 - d) all of the mentioned
- 8. Spinning plots can be used for two-dimensional data.
 - a) True
 - b) False.





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- 9. Which of the following is effective way of checking validity of data analysis?
 - a) Re-run the analysis
 - b) Review the code
 - c) Check the sensitivity
 - d) All of the mentioned
- 10. Which of the following is similar to a pre-specified clinical trial protocol? .
 - a) Caching-based Data Analysis
 - b) Evidence-based Data Analysis
 - c) Markdown-based Data Analysis
 - d) All of the mentioned
- 11. Point out the wrong statement with respect to reproducibility.
 - a) Focuses on the validity of the data analysis
 - b) The ultimate standard for strengthening scientific evidence
 - c) Important when replication is impossible
 - d) None of the mentioned
- 12. Which of the following can be used for data analysis model?
 - a) CRAN
 - b) CPAN
 - c)CTAN
 - d) All of the mentioned
- 13. Reproducibility determines correctness of data analysis.
 - a) True
 - b) False
- 14. Which of the following step is not required in data analysis?
 - a) Synthesize results
 - b) Create reproducible code
 - c) Interpret results
 - d) None of the mentioned
- 15. Which of the following gives reviewers an important tool without dramatically increasing the burden?
 - a) Quality research
 - b) Replication research
 - c) Reproducible research
 - d) None of the mentioned.
- 16. Result analysis are relatively easy to replicate or reproduce.
 - a) True
 - b) False
- 17. Machine learning is a subset of which of the following?
 - a) Artificial Intelligence
 - b) Deep Learning
 - c) Data learning
 - d) None of the above





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- 18. Identify the data science skills among the following
 - a) Data visualization
 - b) Machine learning
 - c) Statistics
 - d) All the above
- 19. Column is a representation of data.
 - a) Diagonal
 - b) Vertical
 - c) Top
 - d) Horizontal
- 20. Row is a representation of data.
 - a) Diagonal
 - b) Vertical
 - c) Top
 - d) Horizontal

COORDINATOR

(Mrs.M.Divya)

HOD/CSE

(Mr.P.Rethinasabapathy)

THOUSE HOUSE



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18CSEVAC02 - EXPLORATORY DATA ANALYSIS FOR MACHINE LEARNING

FEEDBACK FORM

Student Reg. No. &Name:	112415104019	\$ Morika P

Sem & Year: 08 \$ 10

Evaluating the following Question

Date: 16/2/2019

- 1. This course was interesting
- a) Strongly Agree
- b) Agree
- c) Moderate
- d) Disagree e) Strongly Disagree

- 2. Was this course useful?
- a) Strongly Agree
- b) Agree
- c) Moderate d) Disagree e) Strongly Disagree
- 3. During the course did you find any technical Difficulties?
- a) Strongly Agree
- b) Agree
- c) Moderate Disagree e) Strongly Disagree
- 4. did the instructor delivered the information, you didn't know already
- a) Strongly Agree
- b) Agree
- c) Moderate
- d) Disagree e) Strongly Disagree
- 5. The Subject matter was presented effectively
- a) Strongly Agree
- b) Agree
- c) Moderate
- d) Disagree e) Strongly Disagree
- 6. This instructor helped me learn about how the course works in the real world.
- a) Strongly Agree
- b) Agree
- c) Moderate
- d) Disagree e) Strongly Disagree
- 7. This instructor provided information I can use to be successful in my career.
- a) Strongly Agree
- b) Agree
- c) Moderate
- d) Disagree e) Strongly Disagree
- 8. Overall how do you rate the Training Program?
- a) Strongly Agree
- b) Agree
- c) Moderate
- d) Disagree e) Strongly Disagree



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p. Monika Student Signature



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18CSEVAC02 - EXPLORATORY DATA ANALYSIS FO	R MACHI	NE LEARN	ING
Student Reg. No. & Name: 112416104050 2 Yennila M.	G.		
Sem & Year: VI th Sem & IIIrd year.		Date:	16/02/19
 Which of the following gave rise to need of graphs in data analysis? a) Data visualization b) Communicating results c) Decision making d) All of the mentioned 	. /	18	
Which of the following is characteristic of exploratory graph? a) Made slowly b) Axes are not cleaned up.		20	

	d) All of the mentioned
3.	Point out the incorrect statement

a) coplots are one dimensional data graph

Colour is used for personal information

- b) Exploratory graphs are made quickly
- c) Exploratory graphs are made relatively less in number
- d) All of the mentioned
- 4. Which of the following graph can be used for simple summarization of data?
 - a) Scatterplot
 - b) Overlaying
 - Bar plot
 - d) All of the mentioned
- 5. Colour and shape are used to add dimensions to graph data.
 - a) True
 - b) False
- 6. Which of the following information is not given by five-number summary?
 - a) Mean
 - b) Median
 - c)Mode
 - All of the mentioned
- 7. Which of the following is also referred to as overlayed ID plot?
 - a) Pattice
 - b) bar plot
 - c) gplot
 - d) all of the mentioned
- 8. Spinning plots can be used for two-dimensional data.
 - a) True
 - b) False



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9 Which of the following is affective way of the line of the	1
9. Which of the following is effective way of checking validity of a) Re-run the analysis	data analysis?
b) Review the code	
c) Check the sensitivity	
All of the mentioned	
10. Which of the following is similar to a pre-specified clinical tria	l protocol?.
a) Caching-based Data Analysis	
b) Evidence-based Data Analysis	
c) Markdown-based Data Analysis	
d) All of the mentioned	
11. Point out the wrong statement with respect to reproducibility.	
a) Focuses on the validity of the data analysis	
The ultimate standard for strengthening scientific evidence	ce
c) Important when replication is impossible	
d) None of the mentioned	
12. Which of the following can be used for data analysis model?	
a) CRAN	
b) CPAN	
SCTAN	
d) All of the mentioned	
13. Reproducibility determines correctness of data analysis.	
a) True	
b) False	
14. Which of the following step is not required in data analysis?	
a) Synthesize results	
b) Create reproducible code	
c) Interpret results	
None of the mentioned	
5. Which of the following gives reviewers an important tool without	ut dramatically increasing the Land
a) Quality research	at dramatically increasing the burden?
b) Replication research	
Reproducible research	
d) None of the mentioned.	
6. Result analysis are relatively easy to replicate or reproduce.	
a) True	
by False	
7. Machine learning is a subset of which of the following?	
a) Artificial Intelligence	
b) Deep Learning	
c) Data learning	STIVENCIPAL
d) None of the above	VENE TIOA
	Engineering and Technology,
Thirupachur Pin: 631 203	Thirupachur, Thiruvallur - 631 203
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18. Identify the data science skills among the following

in: 631 203

- a) Data visualization
- b) Machine learning
- c) Statistics
- All the above
- 19. Column is a representation of data.
 - a) Diagonal
 - b) Vertical
 - c) Top
 - d Horizontal
- 20. Row is a representation of data.
 - a) Diagonal
 - b) Vertical
 - c) Top

d) Horizontal



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18CSEVAC02 - EXPLORATORY DATA ANALYSIS FOR MACHINE LEARNING

Course Code	EXPLORATORY DATA ANALYSIS FOR MACHINE LEARNING 32 HOURS		
Name of the Course			
Duration of the Course			
Academic Year	2018-19		
Period of the Course	11.02.2019 TO 16.02.2019		

STUDENT EVALUATION SHEET

S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
1	III	112416104021	KRISHNAMOORTHY.K	32	80
2	III	112416104022	MAHALAKSHMI.M	32	80
3	III	112416104023	MOHANAVALLI.T	32	90
4	III	112416104024	NAGAJOTHI.K	32	95
5	III	112416104025	NIKITHA AS	32	85
6	III	112416104026	NIVEDITHA S	32	100
7	III	112416104027	PAVITHRA.V	32	80
8	III	112416104028	PAVITHRA.V	32	95
9	III	112416104029	POOVIZHI.D	32	80
10	III	112416104030	PREETHA.B	32	9.5
11	III	112416104031	PRITHIYA.M	32	95
12	III	112416104032	RAMYA.A	32	85
13	III	112416104034	RUPAN KUMAR S	32	90
14	III	112416104035	SABARISAN.P	32	90
15	III	112416104036	SANJAY.K	32	95
16	III	112416104037	SATHIYA.S	32	80
17	III	112416104038	SEDHU GANGA.P	32	80
18	// A	116104039	SHALINI.G	3/2	80
19	HANNA Pin 63	1124 104041	Sri Venk	RINCIPAL ateswara College	e of 80
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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
20	III	112416104042	SURALAKSHMI.V	32	95
21	III	112416104044	SWATHY ATCHAYAA.B	32	85
22	III	112416104045	SWETHA.M	32	85
23	III	112416104046	SWETHA.M	32	90
24	III	112416104048	THULASI RAMAN	. 32	80
25	III	112416104049	VASANTH.V	32	80
26	III	112416104050	VENNILA.M.G	32	95
27	III	112416104051	VIJAYAKUMAR.V	32	90
28	III	112416104052	VINOTH KUMAR.T.S	32	90
29	III	112416104053	YUVARAJ.N	32	90
30	III	112415104002	ARUN KUMAR A	32	95
31	III	112415104003	BALAJI N	32	95
32	III	112415104004	CHINNARASU D	32	80
33	IV	112415104007	DHARSHNI K N	32	85
34	IV	112415104008	DHILIP T K	32	95
35	IV	112415104010	DURGA M	32	95
36	IV	112415104011	GIRIDHARAN D	32	80
37	IV	112415104012	HEMALATHA V	32	loc
38	IV	112415104015	KEERTHANA V	32	80
39	IV ,	112415104016	KISHORE KUMAR B	32	80
40	IV	112415104018	LILLY ABIRAMI K	32	\$5
41	IV	112415104019	MONIKA P	32	95
42	IV	112415104021	MUTHAZHAGI P	32	95
43	IV	112415104023	POONKUZHALI S	32	90
44	IV	112415104025	PUSHPARANI M	32	90
45	IV	Thirupachur G	SANGEETHA J	PRINCIPAL /enkateswara Co	

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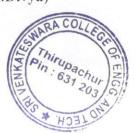
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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
46	IV	112415104027	SHOBANA M	32	90
47	IV	112415104028	SOMESHWARAN M	32	80
48	IV	112415104032	SRINIVAAS M	32	80
49	IV	112415104033	SRINIVASA PRABHU V	32	95
50	IV	112415104035	SUHAS NITIN KANNA M	32	95
51	IV	112415104037	VARALAKSHMI Ş	32	100
52	IV	112415104038	VASANTH G	32	85
53	IV	112415104039	VIGNESH R	32	85
54	IV	112415104301	HARI PRASATH D V	32	95
55	IV .	112415104038	VASANTH G	32	70
56	IV	112415104039	VIGNESH R	32	80
57	IV	112415104301	HARI PRASATH D V	32	95
58	ME-CSE	112418405006	RAJESH R	32	75
59	ME-CSE	112418405007	SANGEETHA S	32	80
60	ME-CSE	112418405008	VINODHINI A	32	80
61	ME-CSE	112417405001	ANUSUYA S	32	95
62	ME-CSE	112417405004	GOMATHI S	32	85
63	ME-CSE	112417405006	JAKKAMPUDI DEDEEPYA	32	85
64	ME-CSE	112417405008	MYSHALINI D	32	90
65	ME-CSE	112417405012	SHERINE MONISHA S	32	80

M. Diens COORDINATOR

(Mrs.M.Divya)



HOD/CSE

(Mr.P.Rethinasabapathy)



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING CERTIFICATE OF PARTICIPATION

This is to certify that Mar/Ms VE.NNILA.M.(1)2416104050).... UG/PG

Department of Computer Science and Engineering has successfully completed Value

Added Course titled 'EXPLORATORY DATA ANALYSIS FOR MACHINE

LEARNING' held from 11.02.2019 to 16.02.2019

CO-ORDINATOR

Thirupachur GG Pin: 631 203

Sri Venkateswara College of Engineering and Technology

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PRINCIPAL



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms NIVE DITHA: S.(1)241.6104026).... UG/PG

Department of Computer Science and Engineering has successfully completed Value

Added Course titled 'EXPLORATORY DATA ANALYSIS FOR MACHINE

LEARNING' held from 11.02.2019 to 16.02.2019

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This is to certify that Mr/Ms KEBRIHANA. V. LIL2415.10.4015.). UG/PG

Department of Computer Science and Engineering has successfully completed Value

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CO-ORDINATOR

Thirupachur Pin: 631 203 A

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This is to certify that Mr/Ms MysHallni.D.L.1.241740508) UG/PG

Department of Computer Science and Engineering has successfully completed Value

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This is to certify that Mr/Ms RAJES.H.R. (1124-1840.5006.)..... UG/PG

Department of Computer Science and Engineering has successfully completed Value

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LEARNING' held from 11.02.2019 to 16.02.2019

M. Dinit CO-ORDINATOR



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING **CERTIFICATE OF PARTICIPATION**

This is to certify that Mr/Ms SANGIEETHA: J. (1124) 5 1240.26) UG/PG

Department of Computer Science and Engineering has successfully completed Value

Added Course titled 'EXPLORATORY DATA ANALYSIS FOR MACHINE

LEARNING' held from 11.02.2019 to 16.02.2019

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This is to certify that Mr/Ms Suralakshmr. V. (1124.1.6104042) UG/PG

Department of Computer Science and Engineering has successfully completed Value

Added Course titled 'EXPLORATORY DATA ANALYSIS FOR MACHINE

LEARNING' held from 11.02.2019 to 16.02.2019

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PRINCIPAL