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

No of Students appeared: 65

Scheme of Exam: Offline

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)

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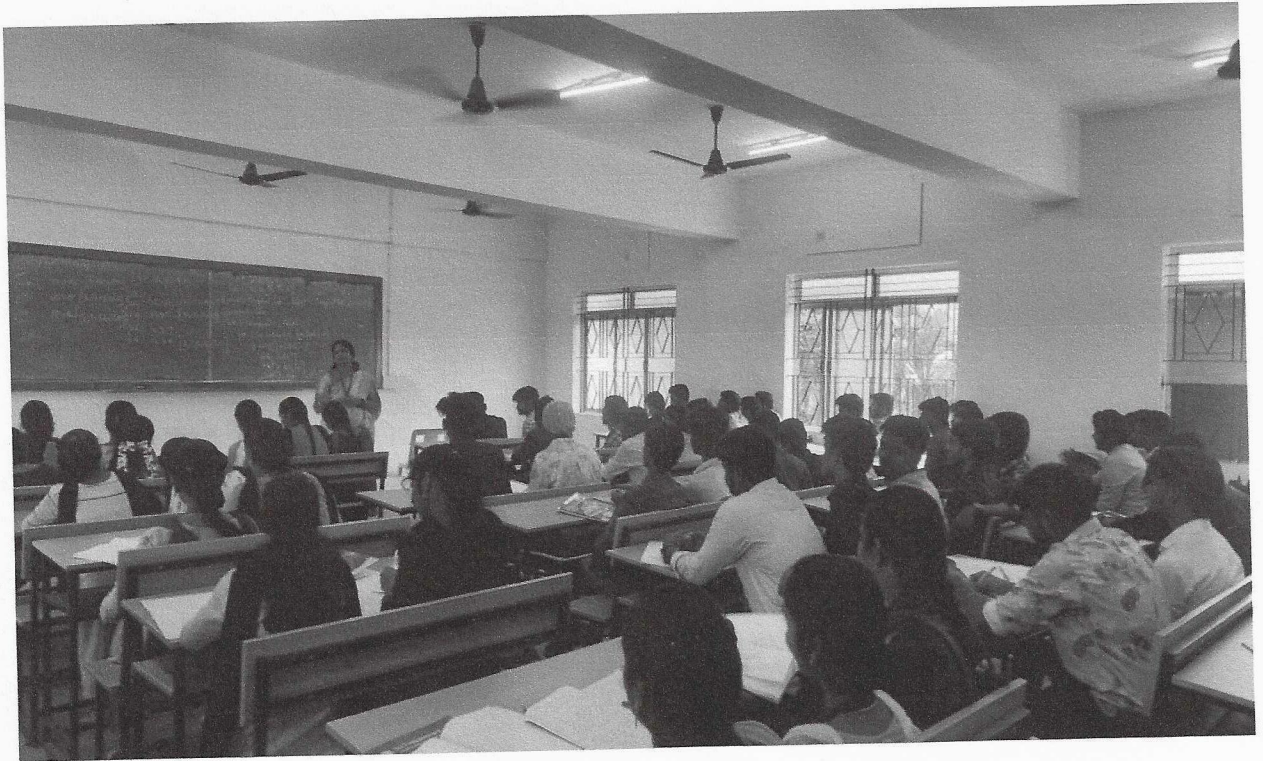
HOD/CSE

(Mr.P.Rethinasabapathy)
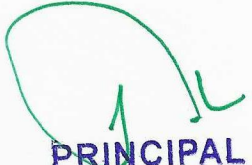
18CSEVAC02 - EXPLORATORY DATA ANALYSIS FOR MACHINE LEARNING

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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REQUEST LETTER

From

    Mr.P. Rethinasabapathy

    HOD /CSE

    SVCET

    Thirupachur.

Permitted

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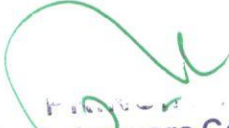
    Please find the attached Invitation, circular to students, and a presentation highlighting the key areas that will be focused in the Training program.

Thanking You

HOD/CSE

(Mr.P.Rethinasabapathy)

PRINCIPAL

(Dr.J.Venkatesh)

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Thirupachur, Thiruvallur - 631 203

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)

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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

Thirupachur
Pin : 631 203

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Mr. P. Rethinasabapathy

HOD / CSE

Dr.J.Venkatesh

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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	: divyamars10@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 Learning-Machine Learning and Deep Learning-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)

HOD/CSE

(Mr.P.Rethinasabapathy)

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COURSE SCHEDULE

6 Days Training Schedule – Exploratory Data Analysis for Machine Learning			
Day & Date	Session & Time	Speaker Name	Session Topics
Day 1 & 11.02.19	8.30 am to 10.30am	Mrs. Uma. V, AP/CSE	Introduction to Artificial Intelligence and Machine Leaming
	10.45 am to 12.45 pm	Mrs.M. Divya, AP/CSE	Machine Leaming and Deep
	1.30 pm to 3.30pm	Mrs. Uma. V, AP/CSE	Leaming Modern AI and applications
Day 2 & 12.02.19	8.30 am to 10.30am	Mrs.M. Divya, AP/CSE	Retrieving Data from CSV and JSON file -Retrieving Data from Databases
	10.45 am to 12.45 pm	Mrs. Uma. V, AP/CSE	AP is, and the Cloud Reading Data Jupiter Notebook
	1.30 pm to 3.30pm	Mrs.M. Divya, AP/CSE	Reading in Database Files Data Cleaning, Handling Missing Values and Outliers
Day 3 & 13.02.19	8.30 am to 10.30am	Mrs. Uma. V, AP/CSE	Handling Missing Values and Outliers using Residuals
	10.45 am to 12.45 pm	Mrs.M. Divya, AP/CSE	Introduction to Exploratory Data Analysis (EDA)EDA with Visualization
	1.30 pm to 3.30pm	Mrs. Uma. V, AP/CSE	Grouping Data for EDA EDA Notebook Background Variable Transformation
Day 4 & 14.02.19	8.30 am to 10.30am	Mrs.M. Divya, AP/CSE	Feature Engineering and Variable Transformation
	10.45 am to 12.45 pm	Mrs. Uma. V, AP/CSE	Feature Encoding Feature Scaling
Day5 & 15.02.19	8.30 am to 10.30am	Mrs.M. Divya, AP/CSE	Common Variable Transformations in Python
	10.45 am to 12.45 pm	Mrs. Uma. V, AP/CSE	Feature Engineering-Estimation-Introduction to Hypothesis
Day6 & 16.02.19	8.30 am to 10.30am	Mrs.M. Divya, AP/CSE	Hypothesis Testing Examples-Significance
	10.45 am to 12.45 pm	Mrs. Uma. V, AP/CSE	Level P Values Significance Level and P-Values and the F Statistic
	1.30 pm to 3.30 pm	Mrs.M. Divya, AP/CSE	Correlation vs. Causation and test

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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

S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	SIGNATURE
1	III	112416104021	KRISHNAMOORTHY.K	
2	III	112416104022	MAHALAKSHMI.M	
3	III	112416104023	MOHANAVALLI.T	
4	III	112416104024	NAGAJOTHI.K	
5	III	112416104025	NIKITHA AS	
6	III	112416104026	NIVEDITHA S	
7	III	112416104027	PAVITHRA.V	
8	III	112416104028	PAVITHRA.V	
9	III	112416104029	POOVIZHI.D	
10	III	112416104030	PREETHA.B	
11	III	112416104031	PRITHIYA.M	
12	III	112416104032	RAMYA.A	
13	III	112416104034	RUPAN KUMAR S	
14	III	112416104035	SABARISAN.P	
15	III	112416104036	SANJAY.K	
16	III	112416104037	SATHIYA.S	
17	III	112416104038	SEDHU GANGA.P	
18	III	112416104039	SHALINI.G	
19	III	112416104041	SUMAN RAJ.R	
20	III	112416104042	SURALAKSHMI.V	
21	III	112416104044	SWATHY ATCHAYAA.B	
22	III	112416104045	SWETHA.M	
23	III	112416104046	SWETHA.M	
24	III	112416104048	THULASI RAMAN	
25	III	112416104049	VASANTH.V	
26	III	112416104050	VENNILA.M. G	
27	III	112416104051	VIJAYAKUMAR.V	
28	III	112416104052	VINOTH KUMAR.T.S	

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29	III	112416104053	YUVARAJ.N	
30	III	112415104002	ARUN KUMAR A	
31	III	112415104003	BALAJI N	
32	III	112415104004	CHINNARASU D	
33	IV	112415104007	DHARSHNI K N	
34	IV	112415104008	DHILIP T K	
35	IV	112415104010	DURGA M	
36	IV	112415104011	GIRIDHARAN D	
37	IV	112415104012	HEMALATHA V	
38	IV	112415104015	KEERTHANA V	
39	IV	112415104016	KISHORE KUMAR B	
40	IV	112415104018	LILLY ABIRAMI K	
41	IV	112415104019	MONIKA P	
42	IV	112415104021	MUTHAZHAGI P	
43	IV	112415104023	POONKUZHALI S	
44	IV	112415104025	PUSHPARANI M	
45	IV	112415104026	SANGEETHA J	
46	IV	112415104027	SHOBANA M	
47	IV	112415104028	SOMESHWARAN M	
48	IV	112415104032	SRINIVAAS M	
49	IV	112415104033	SRINIVASA PRABHU V	
50	IV	112415104035	SUHAS NITIN KANNA M	
51	IV	112415104037	VARALAKSHMI S	
52	IV	112415104038	VASANTH G	
53	IV	112415104039	VIGNESH R	
54	IV	112415104301	HARI PRASATH D V	
55	IV	112415104038	VASANTH G	
56	IV	112415104039	VIGNESH R	
57	IV	112415104301	HARI PRASATH D V	
58	ME-CSE	112418405006	RAJESH R	
59	ME-CSE	112418405007	SANGEETHA S	
60	ME-CSE	112418405008	VINODHINI A	
61	ME-CSE	112417405001	ANUSUYA S	
62	ME-CSE	112417405004	GOMATHI S	
63	ME-CSE	112417405006	JAKKAMPUDI DEDEEPYA	

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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	SIGNATURE
64	ME-CSE	112417405008	MYSHALINI D	*Myshalini D*
65	ME-CSE	112417405012	SHERINE MONISHA S	*S. Sherine*

COORDINATOR

(Mrs.M. Divya)

HOD/CSE

(Mr.P.Rethinasabapathy)

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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.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	11.02.19 6 HOURS		12.02.19 6 HOURS		13.02.19 6 HOURS		14.02.19 4 HOURS		15.02.19 4 HOURS		16.02.19 6 HOURS		TOTAL HOURS (32)
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
1	III	112416104021	KRISHNAMOORTHY.K													32
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24	III	112416104048	THULASI RAMAN													32
25	III	112416104049														32

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60	ME-CSE	112418405008	VINODHINI A													32
61	ME-CSE	112418405001	AKILYA S													32

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Thirupachur Pin : 631 203
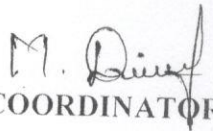
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63	ME-CSE	112417405006	JAKKAMPUDI DEDEEPYA													32
64	ME-CSE	112417405008	MYSHALINI D													32
65	ME-CSE	112417405012	SHERINE MONISHA S													32

COORDINATOR

(Mrs.M. Divya)

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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.

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

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)

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18CSEVAC02 - EXPLORATORY DATA ANALYSIS FOR MACHINE LEARNING

FEEDBACK FORM

Student Reg. No. &Name: 112415104019 $ MOnika. P

Sem & Year: 08 $ IU   Date: 16/2/2019

Evaluating the following Question

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   d) 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

18CSEVAC02 - EXPLORATORY DATA ANALYSIS FOR MACHINE LEARNING

Student Reg. No. & Name: 112416104050 & Yennila M.G.

Sem & Year: VIth Sem & IIIrd year.   Date: 16/02/19

18/20

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 ✓

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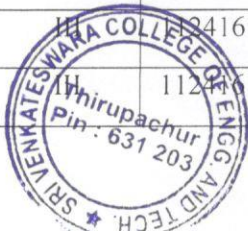## COLLEGE OF ENGINEERING AND TECHNOLOGY

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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

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	95
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	III	112416104039	SHALINI.G	32	80
19	III	112416104041	SUMAN RAJ.R	32	80

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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	100
38	IV	112415104015	KEERTHANA V	32	80
39	IV	112415104016	KISHORE KUMAR B	32	80
40	IV	112415104018	LILLY ABIRAMI K	32	85
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	112415104026	SANGEETHA J	32	80

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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 S	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

COORDINATOR

(Mrs.M.Divya)

HOD/CSE

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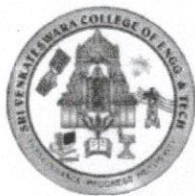
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This is to certify that Mr/Ms VENNILA M.G (11241610405O) UG/PG

Department of Computer Science and Engineering has successfully completed Value

Added Course titled 'EXPLORATORY DATA ANALYSIS FOR MACHINE

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This is to certify that Mr/Ms NIVEDITHA S (112416104026) UG/PG

Department of Computer Science and Engineering has successfully completed Value

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Department of Computer Science and Engineering has successfully completed Value

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This is to certify that Mr/Ms M.SHALINI. D.(11241740508) UG/PG

Department of Computer Science and Engineering has successfully completed Value

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This is to certify that Mr/Ms .....RAJESH.R.(1124.1840.5006.)....... UG/PG

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This is to certify that Mr/Ms **SANGEETHA.J (112415104026)** ...... UG/PG

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This is to certify that Mr/Ms SURALAKSHMI.V. (11241.6104042.) UG/PG

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