

Guest Lecture on "Case Studies on Regression and Decision Tree"

DATE: 24/03/2021

Event Coordinator(s)

1. Ms.Teena Varma

Student Coordinator(s)

1. Lincy B.

2. Kevin

Time& Place:9am-1pm

Online Platform

Department:Computer
Engineering

No of participants:63

Prof. Teena Varma from Computer Department Conducted a Guest lecture of Third Year students on "Case Studies on Regression and Decision Trees Application" on 17th March 2021 held by Dr.S.Vairachilai,Associate Professor,CVR College Of Engineering,Vastunagar, Mangalpalli (V), Ibrahimpatnam (M) Rangareddy (D), Telangana.This session was conducted on Google meet.

Dr.S.Vairachilai explained about the concepts of Regression and Types of Data used for Machine Learning Applications and an Introduction to Decision Tree.
Hands-on were provided on Python-platform with datasets which were taken from various sites mentioned by her session .Students asked questions related to this topic.

Student Feedback and Benefits : The students found the session interactive and informative and it will help them in future career and also for project work.

Ms.Teena Varma
Assistant Professor
Computer Department

Dr. Saurabh Patil
Head Of Department
Computer Department

uyr-yptq-sei (2021-03-16 at 22:30 GMT-7) uyr 1/6

```
graph TD; ML[MACHINE LEARNING] --> SL[SUPERVISED LEARNING]; ML --> UL[UNSUPERVISED LEARNING]; SL --> C[CLASSIFICATION]; SL --> R[REGRESSION]; UL --> CL[CLUSTERING]; UL --> A[ASSOCIATION];
```

Mute (m)

1:14 / 49:04

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Press Esc to exit full screen

Types of Regressions

- Simple Linear Regression *SLR*
- Multivariable (Multiple) Linear Regression *MLR*
- **Logistic Regression**
- Polynomial Regression
- Stepwise Regression
- Ridge Regression
- Lasso Regression
- ElasticNet Regression

3:12 / 49:04

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The screenshot shows a Jupyter Notebook interface with a data table. The table has 5 columns: 'rank', 'available', 'bookable', 'reservation', and 'sales'. The data is as follows:

| rank | available | bookable | reservation | sales |
|------|-----------|----------|-------------|-------|
| 0 | 10.00 | 40.00 | 10.00 | 20.00 |
| 1 | 20.00 | 30.00 | 20.00 | 10.00 |
| 2 | 30.00 | 20.00 | 30.00 | 10.00 |
| 3 | 40.00 | 10.00 | 40.00 | 10.00 |
| 4 | 50.00 | 0.00 | 50.00 | 10.00 |

Below the table, there is a code cell with the following content:

```
In [1]: Marketing_dataframe.head()
```

At the bottom of the notebook, there is a cell with the following content:

```
Out[1]:
```

| rank | available | bookable | reservation | sales |
|------|-----------|----------|-------------|-------|
| 0 | 10.00 | 40.00 | 10.00 | 20.00 |
| 1 | 20.00 | 30.00 | 20.00 | 10.00 |
| 2 | 30.00 | 20.00 | 30.00 | 10.00 |
| 3 | 40.00 | 10.00 | 40.00 | 10.00 |
| 4 | 50.00 | 0.00 | 50.00 | 10.00 |

At the bottom of the screen, there are two tabs labeled 'Xie-Event-format...docx' and a 'Show all' button.

uyr 1/6

The screenshot shows a Google Meet interface. The main screen displays 'You're presenting to everyone' with a 'Stop presenting' button. A list of participants is visible on the right side of the screen, including 'You', 'Julia Singh', 'Parth Chaurav', 'Ojan Yous', 'Sharon Mary Thomas', and 'Aditya Parde'. The meeting details panel on the right shows 'Meeting details' and 'Chat'. At the bottom, there are two tabs labeled 'Xie-Event-format...docx' and a 'Show all' button.

uyr 1/6

The screenshot shows a Google Meet interface. The main screen displays 'You're presenting to everyone' with a 'Stop presenting' button. A list of participants is visible on the right side of the screen, including 'You', 'Julia Singh', 'Parth Chaurav', 'Ojan Yous', 'Jeffrey Chaturvedi', 'Irene Barua', 'Hiding Rajan', and 'Vijay Lakshmi'. The meeting details panel on the right shows 'Meeting details' and 'Chat' with several messages:

- Shea Dennis: 10:04 AM you mean
- Sahar Mahesh: 10:04 AM Mean could you tell about kurtside again
- Megha Uthya Kumar: 10:04 AM you mean
- Nikhita Shetty: 10:04 AM You mean
- Nasha Toller: 10:04 AM you mean

At the bottom, there are two tabs labeled 'Xie-Event-format...docx' and a 'Show all' button.