



**IEEE - MVSR STUDENT BRANCH**  
Student Branch Code: 12161, School Code: 41329276



## **FUNDAMENTALS OF DATA SCIENCE**

IEEE MVSR SB CS Student Chapter Women in Computing in collaboration with The Department of CSE, MVSR Engineering College has conducted a workshop on 30th April 2021. Mrs B. Saritha, Associate Professor, CSE Department, MVSR Engineering College the speaker of the workshop. The motto of the session is to give clear insights into Data Science.

### **Student Branch Mentor:**

**Dr. Atul Negi,**  
Professor, School of CIS,  
University of Hyderabad

### **Student Branch Advisor:**

**Dr. G. Kanaka Durga,**  
Principal and Professor,  
MVSR Engineering College.

### **Student Branch Counsellor:**

**Dr. D. Hari Krishna,**  
Associate Professor, EEE Dept.,  
MVSR Engineering College.

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Vice Chair	Ms. N. Sahitya
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Joint Secretary	Ms. R. Ruchita Reddy
Treasurer	Ms. P. Sruti
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Treasurer	Mr. Sriteja Mopati
Women in Power	Ms. T. Snigdha

### **WIE Affinity Group Advisor:**

**Mrs. A. Vijaya Vahini,**  
Assistant Professor, IT Dept.,  
MVSR Engineering College.

### **PES Student Chapter Advisor:**

**Dr. D. Hari Krishna,**  
Associate Professor, EEE Dept.,  
MVSR Engineering College.

### **CS Student Chapter advisor:**

**Mrs. B. Saritha**  
Associate Professor, CSE Dept.,  
MVSR Engineering College.

### **CASS Student Chapter Advisor:**

**Mrs. S. Aruna**  
Assistant Professor, ECE Dept.,  
MVSR Engineering College.

### **Computer Society:**

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### Session Details:

**Date:** 30th April 2021

**Time:** 5:30 P.M - 7:30 P.M

**Number of Attendees:** 45

The main objective of the webinar is to understand the core concepts of Data Science and the various advancements in that field.

The poster is for a webinar titled "FUNDAMENTALS OF DATA SCIENCE" held on 30th April 2021 from 5:30 PM to 7:30 PM. It is presented by the Department of Computer Science & Engineering, IEEE MVSR Student Branch CS Chapter, and Women In Computing. The speaker is Mrs. B. Saritha, an Associate Professor and M.Tech (CSE) Coordinator at MVSR Engineering College. The poster also lists the Faculty Coordinators, Mrs. Pallikonda Subhashini and Mrs. Kanala Kavitha Lakshmi, and provides contact information for Manisha, Bhuvika, and Bhanusree. Logos for Maturi Venkata Subba Rao Engineering College, IEEE MVSR Student Branch, and IEEE Computer Society are displayed at the top.

**Logos:** Maturi Venkata Subba Rao Engineering College, IEEE MVSR Student Branch, IEEE COMPUTER SOCIETY

**Department of Computer Science & Engineering**  
**IEEE MVSR Student Branch CS Chapter**  
**Women In Computing**  
*presents*

**FUNDAMENTALS OF DATA SCIENCE**  
**30th April 2021 | 5:30 PM - 7:30 PM**

**Speaker:** Mrs. B. Saritha  
Associate Professor | MTech (CSE) Coordinator  
MVSR IEEE-CS Advisor | Research Scholar JNTUH  
CSE Department | MVSR Engineering College

**Faculty Coordinator:**  
**Mrs. Pallikonda Subhashini**  
Assistant Professor,  
CSE Department, MVSREC  
**Mrs. Kanala Kavitha Lakshmi**  
Assistant Professor,  
CSE Department, MVSREC

<https://tinyurl.com/Session-DataScience>

**Contact:**  
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Bhanusree - 9652112812

**Social Media:** Instagram, Facebook, LinkedIn, YouTube, IEEEEMVSR, IEEEEMVSRCS

**Poster of the event.**

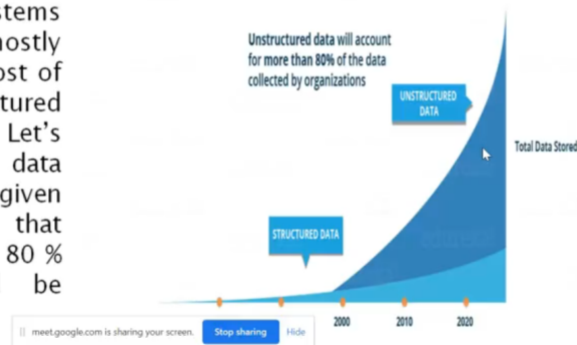
The meeting is accompanied by Dr. D. Hari Krishna, Student Branch Counsellor, IEEE MVSR SB, Mrs. Pallikonda Subhashini, Assistant Professor, CSE Department, MVSR Engineering College, Mrs. Kanala Kavitha Lakshmi, Assistant Professor, CSE Department, MVSR Engineering College and all the executive committee members of the IEEE MVSR CS.

The meeting is commenced by Mr E Sai Charan, Chairperson, IEEE MVSR SB – Computer Society Chapter and gave an overview of the session. Later, Dr. D. Hari Krishna, Student Branch Counsellor addressed the gathering.

Later, Mrs. B. Saritha took over the session and guided the participants of the webinar through the lecture.

## Why Data Science?

Unlike data in the traditional systems which was mostly structured, today most of the data is unstructured or semi-structured. Let's have a look at the data trends in the image given below which shows that by 2020, more than 80 % of the data will be unstructured.



Saritha Bantu

### Explaining the importance of Data Science

The speaker started the webinar by explaining when the requirement of Data Science started and also the reasons for it. Speaker used various use cases where Data Science has been playing an important role.

One of the major topics involved in Data Science is Mathematics and Statistics. Speaker clearly explained how these play a role in Data Science. Speaker also suggested participants make their mathematics and statistics skills very strong in order to perform well in Data Science as a career.

REC Saritha Bantu is presenting iee computer society MYS... and 25 more Press Esc to exit full screen 5:55 PM You

### Data can be used for many purposes:

- quality assurance
- to find actionable patterns (stock trading, fraud detection)
- for resale to your business clients
- to optimize decisions and processes (operations research)
- for investigation and discovery (IRS, litigation, fraud detection, root cause analysis)
- machine-to-machine communication (automated bidding systems, automated driving)
- predictions (sales forecasts, growth, and financial predictions, weather)

meet.google.com is sharing your screen. Stop sharing Hide

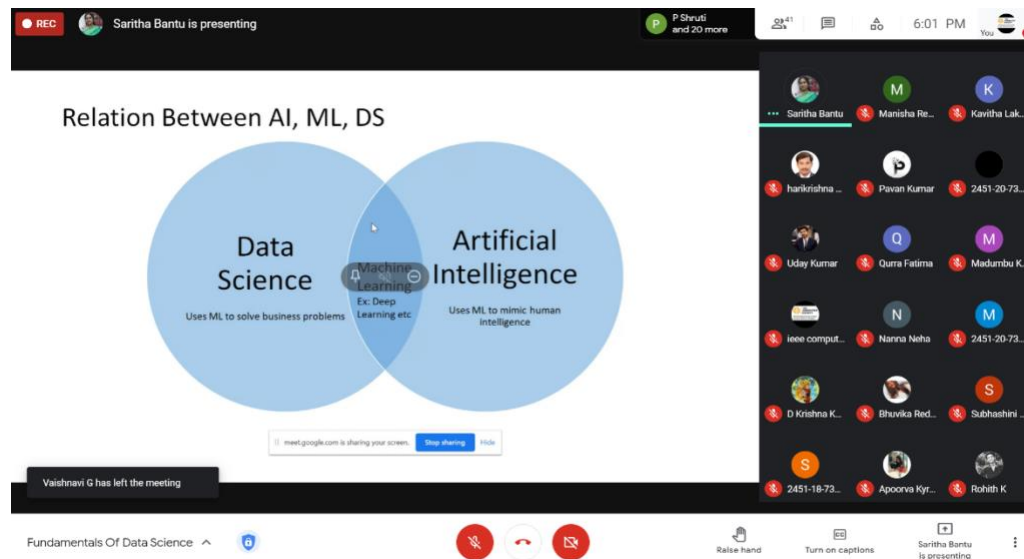
Fundamentals Of Data Science

Participants: Saritha Bantu, Manisha Re..., Kavitha Lak..., harkrishna..., Pavan Kumar, 2451-20-73..., Uday Kumar, D Krishna K..., Qurra Fatima, Madhumbu K..., iee comput..., Rohith K..., Nanna Neha, Bhuvika Red..., 2451-20-73..., Subhashini..., 2451-18-73..., Apoorva Kyr...

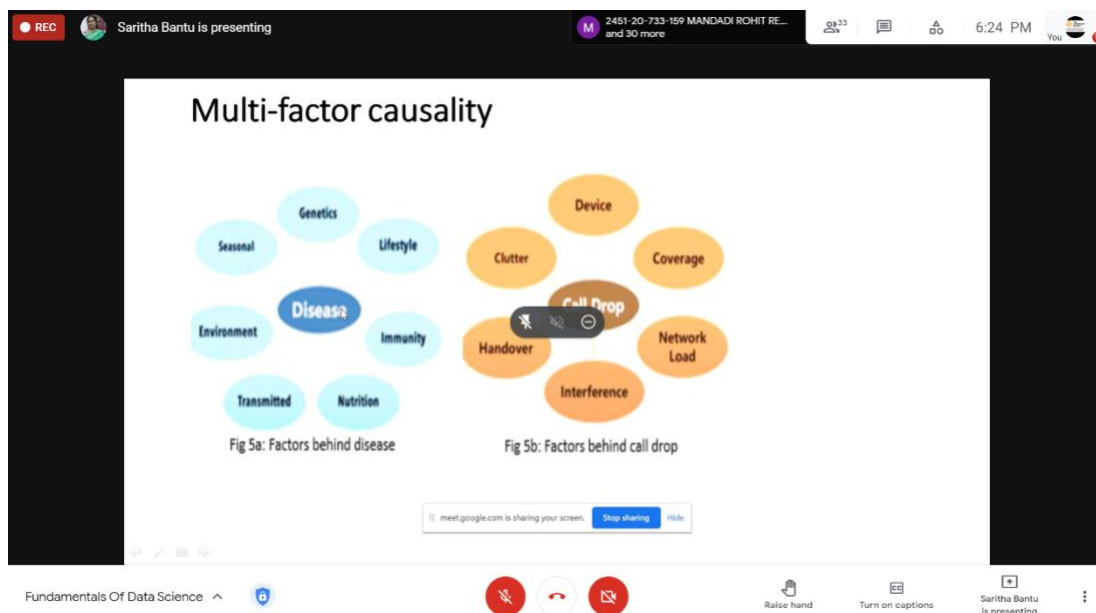
Controls: Raise hand, Turn on captions, Saritha Bantu is presenting

### Explaining the importance of Data

The speaker then gave a detailed view of how Artificial Intelligence, Machine Learning, Data Science are all related and how they all differ from each other. Speaker also briefed on how Data Scientist is different from a Data Analyst. The speaker used various practical examples in daily life in order to differentiate. The audience asked various queries on these topics and the speaker explained those.



**Explaining the relationship between Data Science and AI**



**Explaining Multi-Factor Causality**

The speaker specified the technologies that need to be learnt in order to excel in Data Science. The speaker said that Python, R languages are widely used by experts across the Data Science field and also said that R plays a big role in the Research and development of the projects whereas python plays a big role in project development. The speaker explained the differences between these two technologies and how these two differ. Also explained the merits and demerits of each language.



Speaker demonstrated real business entities which applied data science techniques to their business and how their profits have changed. Speaker also explained the fields where data science plays a major role.

She has also explained the interpretation layers of humans to that of the interpretation layers of the machines. Further, she helped the participants understand casualties and their various types.



In the end, she has also shown us how Data Science is being used in various fields and also the subjects required to pursue Data Science as a career prospect.

Mrs P. Subhashini presented a token of gratitude to Mrs B. Saritha for an insightful and thought-provoking session of the 'Fundamentals of Data Science'. She also briefed all the major points covered through the session. Ms A. Manisha Reddy proposed the vote of thanks and concluded the session.

**REPORTED BY-**

**IEEE MVSR SB**