

## Special Session on 'Statistics for Data Science and Data Analytics.'

**Session Chair:** Dr. Priyanka Mishra, Jaipur.

Professor

Dept. of Computer Science & Engg.

CompuCom Institute of Technology and Management .

INDIA



**Email ID:** [prynkmshr@gmail.com](mailto:prynkmshr@gmail.com)

The session focuses on how data science emphasizes on statistical inference, Data visualization, experiment design, domain knowledge and communication. Data scientists might use simple tools: they could report percentages and make line graphs based on SQL queries. They could also use very complex methods: they might work with distributed data stores to analyse trillions of records, develop cutting-edge statistical techniques, and build interactive visualizations. The goal of Data Science is the understanding of their data. Data science integrates diverse techniques, algorithms, and methods to derive insights and understanding from both structured and unstructured data. It's a field that spans multiple disciplines, leveraging statistical analysis, machine learning, data mining, and visualization techniques.

Data Analytics helps in identifying patterns, trends, and relationships within vast datasets. It aims to translate raw data into actionable insights to inform decision-making, drive innovation, and optimize processes across different domains. Data science combines mathematics, statistics, computer science, and domain expertise to tackle complex analytical problems. Data scientists utilize programming languages such as Python, R, and SQL to manipulate data, build predictive models, and perform statistical analysis. They also employ tools and techniques such as data cleaning, feature engineering, and model validation. Following are the tracks for this special issue and are not limited to.. Topics covered under this session are but not limited to.

Theme 1:Data Science in

- diverse industries and sectors
- finance
- healthcare

- retail
- marketing
- manufacturing
- predictive analytics
- disease diagnosis

## Theme2 : Data Science in

- Engineering
- Software Development
- Computer Vision
- Machine Learning
- Deep Learning
- Artificial Intelligence
- Robotics