



B.M.S. COLLEGE OF ENGINEERING

Autonomous Institute, Affiliated to VTU



**DEPARTMENT OF COMPUTER SCIENCE &
ENGINEERING (DATA SCIENCE)**

DSYNC

DSync, the student club of BMSCE's Computer Science & Engineering (Data Science) Department kicked off a series of initiatives between February and March 2024. Their goal was simple: to make data science more understandable and enjoyable for both students and faculty members.

Through workshops, seminars, and competitions, DSync aimed to demystify the world of data science and equip participants with practical skills and knowledge. The response was overwhelmingly positive, with participants expressing newfound enthusiasm and appreciation for the subject. This success not only boosted DSync's reputation within the department but also set a high standard for their future activities. With this momentum, DSync is poised to continue making waves in the world of data science, inspiring students to explore its potential and embrace its possibilities.

Here's a brief overview of the events conducted during this period:

Events

“Python for Data Science - Python, Tools, Business and Statistics Workshop ”

Date: 16th Feb, 2024

Venue: 1st Session - Auditorium 2, BMSCE

2nd Session - 6th Floor Data Science Lab, BMSCE

Event Description:

DSync, Department Club of CSE(DS) hosted an insightful workshop titled 'Python for Data Science.' This event, held on 16th February, 2024, aimed to provide participants with a deep dive into the world of Data Science and gave a roadmap on how someone should start their journey of Data Science.

The event took place in two sessions. First session was an introductory

session in which our speaker provided everyone with a very organized roadmap for data science and how one should start their data science journey.



The second session was a hands-on session which included how python and MS Excel is implemented in the field of Data Science. The positive participant feedback highlighted the workshop's effectiveness in delivering tangible, real-world insights and positions it as a valuable model for future data science education initiatives.



Objective of the Event:

1. Introduction to Data Science : The primary objective was to educate participants about the fundamentals of Data Science. This included an exploration of different concepts that are to be mastered for a

data science analyst or a data scientist.

2. Hands-on Experience: Through a series of interactive sessions, participants were given hands-on experience on Data Science applications using Python and MS Excel. The practical aspect of the workshop allowed attendees to apply theoretical knowledge in a real-world context, enhancing their skills in product development.

Benefits in terms of Learning and Skill-set acquired:

1. Data Science Roadmap - Participants left with a proper roadmap of the skill set required for becoming a data scientist/analyst. Also gained information on what all an interviewer needs from an interviewee or expects him to know with respect to his/her approach when it comes to analyzing a given data.
2. MS Excel - Participants got a basic understanding on how MS Excel plays an important role in becoming a data scientist/analyst. Learned some of the important functions of MS Excel that are used to filter/analyze raw data.
3. Python Libraries - Participants also got a hands-on session using python where they explored various python libraries which are important when it comes to data science which included numpy, pandas, matplotlib.

Conclusion:

The "Python for Data Science" workshop achieved its educational goals while fostering a dynamic, collaborative atmosphere. Participants departed with enhanced skills, knowledge, and a strengthened sense of community, nurturing the growth of a vibrant Data Science ecosystem.



Events

“DATA ANALYTICS WITH EXCEL”

Date: 2ND March, 2024

Venue: 6th Floor Data Science Lab, BMSCE

Event Description:

On March 2nd, 2024, DSync, the Department Club of CSE (Data Science), hosted an insightful workshop titled 'Data Analytics with Excel'. The workshop featured Mr. Mallikarjun Naik, an IT industry veteran with over 18 years of experience, as the speaker. Attendees were treated to an enlightening session focusing on pivotal Excel skills such as pivot tables, conditional formatting, and functions, providing them with valuable tools for data analysis. Naik's expertise and guidance made the event a significant stepping stone for participants embarking on their journey into the world of data analytics.



Objective of the Event:

3. Introduce fundamental concepts of data analysis: The event aimed to familiarize participants with the fundamental principles and processes involved in data analysis, laying a solid foundation for further exploration.
4. Enhance practical skills in Excel: Through hands-on demonstrations, attendees gained proficiency in using Excel for data analysis, learning basic formulas, functions, and techniques for cleaning and visualizing data.

5. Illustrate the role of data analysis in decision-making: By showcasing a demo project utilizing a sales dataset, participants gained insight into the practical applications of data analysis and its significance in informing business decisions.



Benefits in terms of Learning and Skill-set acquired:

4. Comprehensive understanding of data analysis: Participants gained a thorough understanding of data analysis processes, roles, and essential skills, empowering them to embark on data-driven projects with confidence.
5. Practical proficiency in Excel: Attendees acquired practical skills in Excel, including data cleaning, visualization, and analysis, enhancing their capabilities to manipulate and interpret data effectively.
6. Insight into real-world applications: Through the demonstration project, participants gained insight into applying data analysis techniques to real-world scenarios, bridging the gap between theory and practice.

Conclusion:

The event hosted by Dsync, featuring Mallikarjun Naik as the speaker, proved to be an enriching experience for attendees. By covering a wide range of topics in data analysis and providing hands-on demonstrations, the event equipped participants with valuable skills and knowledge essential for success in the field. As attendees departed with enhanced understanding and practical proficiency,

the event underscored the club's commitment to fostering excellence in data science education and exploration.

