

# Xavier Institute of Engineering

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## Activity Report - Six Days Hands-on STTP on Foundations of “Applied Data Science & its Applications”

<b>Organized By:</b>	S. Beatrice & Ms. Sushama Khanvilkar
<b>Date of the Event:</b>	6 <sup>th</sup> January 2023 to 12 <sup>th</sup> January 2023
<b>Venue:</b>	Mac Lab, XIE.
<b>Name of the Speaker(s):</b>	Dr. Ameya Tripathy, Dr.S. Vairachilai, Dr. Jyoti More, Prof. Vaishali Suryawanshi, Mr.Ashutosh
<b>Designation and Organization of the Speaker(s) :</b>	Professor, Don Bosco Institute of Technology, Head of the Department, Department of Computational Data Science, VIT-Bhopal, Associate Professor, Fr. Conceicao Rodrigues Institute of Technology, Navi Mumbai, Assistant Professor, Computer Engineering Department, Thadomal Shahani Engineering College, Bandra, Mumbai, Data Scientist, Tata Consultancy Services (TCS), Mumbai
<b>Participants Details:</b>	Faculties from Various colleges
<b>Number of Participants:</b>	26

### OBJECTIVE(s):

- To illustrate Foundations of Data science.
- To illustrate Data science applications.

### EVENT OUTCOME(s):

- Faculties are able to execute fundamentals concepts in Applied Data Science & its Applications on experience.

### KEY POINTS:

#### **DAY 1: 6/01/2023**

- The session started with the formal inauguration function. The chief guest of the Inauguration function was **Dr. Ameya Tripathy**, Professor, Don Bosco Institute of Technology. Fr.Dr. John Rose S.J., Director, XIE felicitated the chief guest and addressed the participants. Dr. Y.D.Venkatesh, Principal , XIE addressed the participants.
- After the inauguration function, key note session on Data science was delivered by **Dr. Ameya Tripathy**, Professor, DonBosco Institute of Technology. There was a hand on session on MAC post lunch.

## **DAY 2: 7/01/2023**

- Dr. Vaishali Gaikwad, Head of the Department, Xavier institute of engineering introduced & felicitated Resource Person **Dr.S.Vairachilai**, Head of the Department, Department of Computational Data Science, VIT-Bhopal.
- Then the session for day 2 started at 10:00 a.m. Ma'am has started with explanation of different data types as it's a foundation of any system that we need to understand. Then ma'am explained about different Summary analytics techniques & visual analytics technique. Then ma'am has explained about descriptive statistics & we implemented the same in python which is a part of Summary analytics technique. At 4:00 p.m. ma'am concluded the Day-2 session.

## **DAY 3: 9/01/2023**

- Resource Person **Dr.S. Vairachilai**, Head of the department, Department of Computational Data Science, VIT-Bhopal began the session at 10.00 am. Ma'am started with Inferential Technique and explained about Hypothesis testing, where we learnt about T test & Z test hypothesis. We have solved the problems manually & implemented the same with rice bag dataset case Study using Python. At 4:00 p.m. ma'am concluded the Day-3 session.

## **DAY 4: 10/01/2023**

- Resource Person **Dr.S.Vairachilai**, Head of the department, Department of Computational Data Science, VIT-Bhopal began the session at 10.00 am. Ma'am started with Regression analysis and she explained linear regression & multiple linear regression with different case studies & we implemented the same in Python. Ma'am also explained about Reinforcement learning, Feature engineering. At 4:00 p.m. ma'am concluded the Day-4 session.

## **DAY 5: 11/01/2023**

- Resource Person **Dr.S.Vairachilai**, Head of the department, Department of Computational Data Science, VIT-Bhopal began the session at 10.00 am. Ma'am has started with ANOVA which is a part of inferential statistics. Ma'am has explained the concept with the help of case study & then we solved the same manually & implemented in Python. Then Ma'am discussed about Class imbalanced problem & SMOTE technique to overcome the problem with the help of case study. At 4:00 p.m. ma'am concluded the Day-5 session.

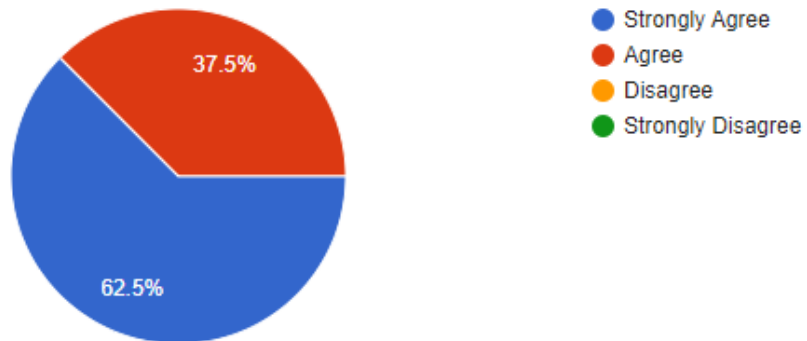
## **DAY 6: 12/01/2023**

- The day began with the Orientation on Applied data science which was conducted by the resource persons **Dr. Jyoti More**, Associate Professor, Fr. Conceicao Rodrigues Institute of Technology, Navi Mumbai and **Prof. Vaishali Suryawanshi**, Assistant Professor, Computer Engineering Department, Thadomal Shahani Engineering College, Bandra, Mumbai. After this session, Applications of Data Science conducted by Resource Person **Mr.Ashutosh**, Data Scientist, Tata Consultancy Services (TCS), Mumbai .

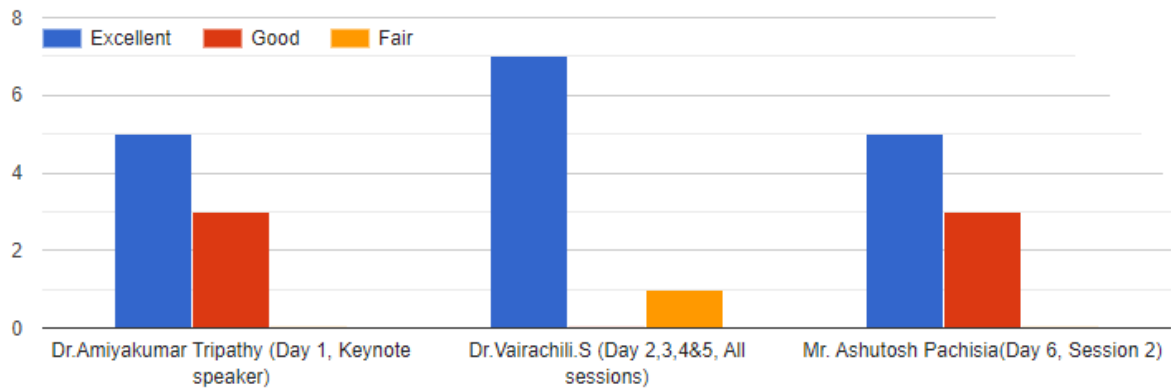
**FEEDBACK:**

Are the objectives of the STTP largely achieved?

8 responses

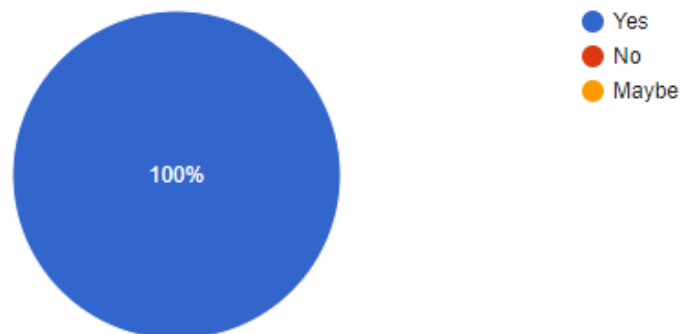


Kindly rate excellence in delivery of session.



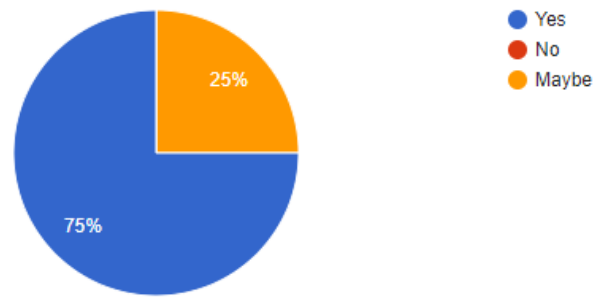
Did you find hospitality for the STTP?

8 responses



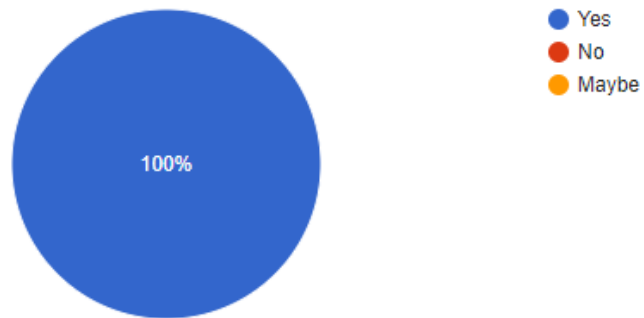
Were the learning resources distributed helpful?

8 responses



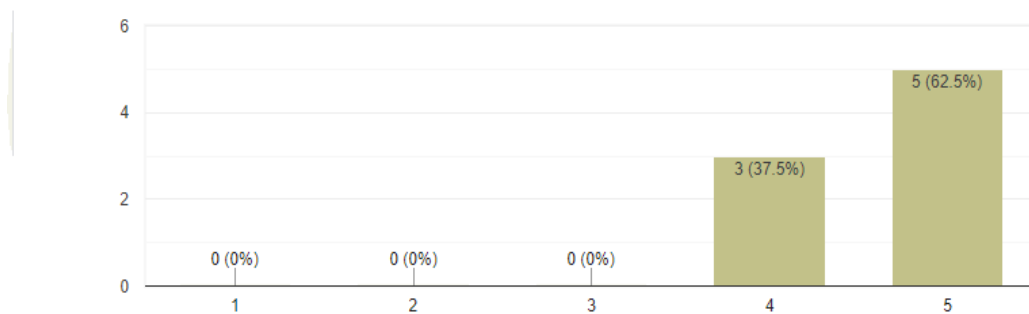
Has this STTP helped you to understand the concept of Applied data science & it's Applications?

8 responses



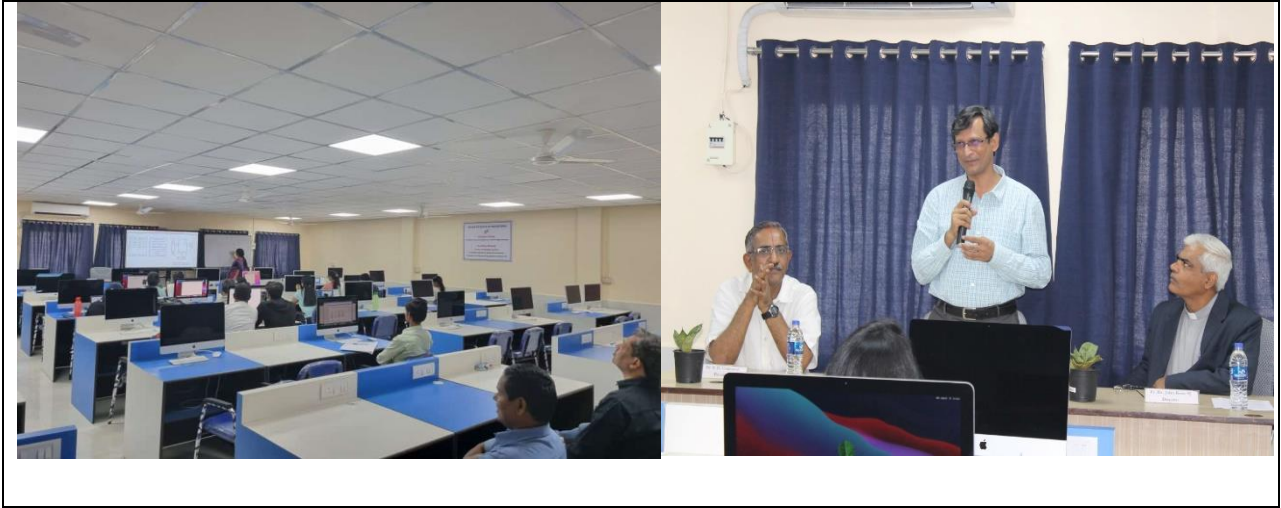
Your overall satisfaction about the STTP.

8 responses



# GLIMPSES OF THE STTP





**Coordinators**  
Prof. Sushama Khanvilkar  
Prof. S. Beatrice