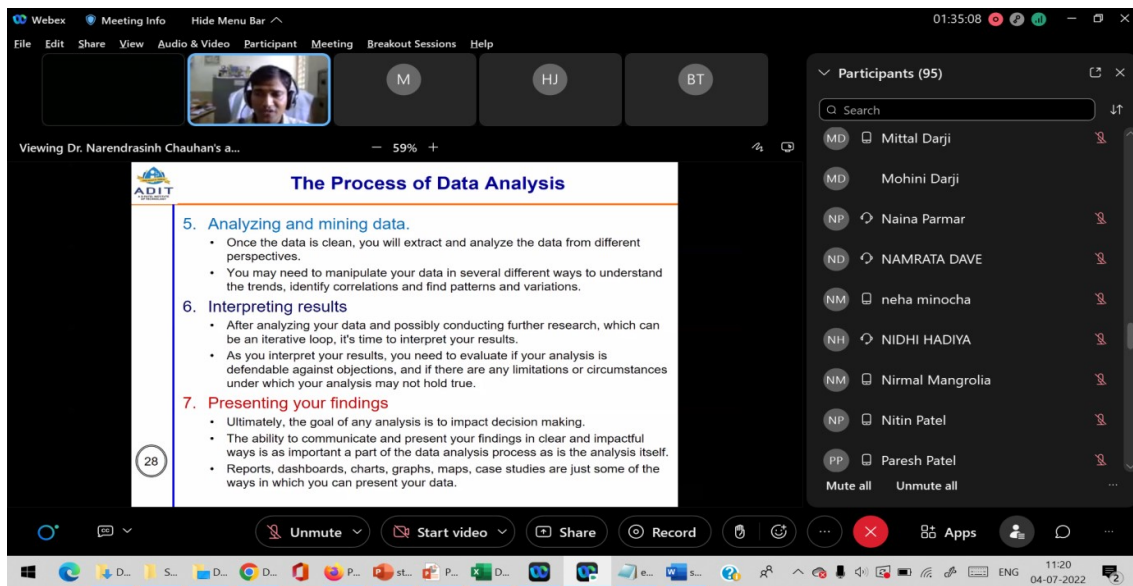


Sardar Vallabhbhai Patel Institute of Technology – Vasad

STTP Report

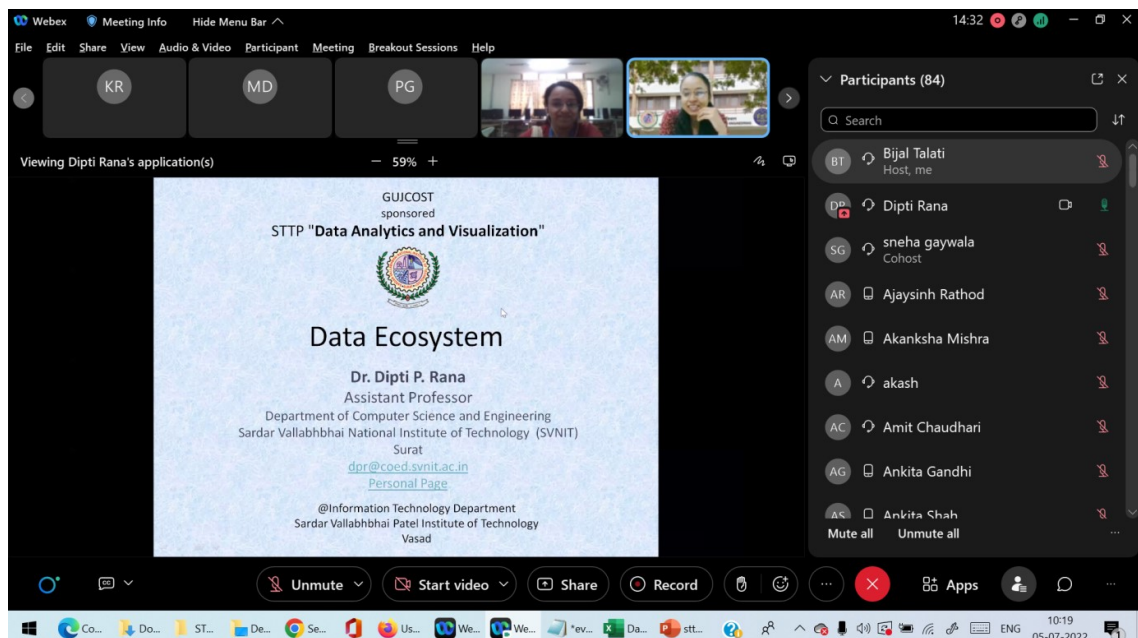
Information Technology Department, SVIT-Vasad, had organized Online GUJCOST Sponsored Six Days Short Term Training Program on "**Data Analytics and Visualization**" which was held from 04th July 2022 to 09th July 2022. Around 132 faculties are participated in this training program. The experts are from well-known universities, industries within and outside of Gujarat.



The screenshot shows a Webex meeting interface. The main content is a slide titled "The Process of Data Analysis" with the ADIT Vasad logo. The slide lists three main steps:

- 5. Analyzing and mining data.**
 - Once the data is clean, you will extract and analyze the data from different perspectives.
 - You may need to manipulate your data in several different ways to understand the trends, identify correlations and find patterns and variations.
- 6. Interpreting results**
 - After analyzing your data and possibly conducting further research, which can be an iterative loop, it's time to interpret your results.
 - As you interpret your results, you need to evaluate if your analysis is defensible against objections, and if there are any limitations or circumstances under which your analysis may not hold true.
- 7. Presenting your findings**
 - Ultimately, the goal of any analysis is to impact decision making.
 - The ability to communicate and present your findings in clear and impactful ways is as important a part of the data analysis process as is the analysis itself.
 - Reports, dashboards, charts, graphs, maps, case studies are just some of the ways in which you can present your data.

The slide also shows a page number "28" in a circle at the bottom left. The meeting interface includes a top bar with "Webex Meeting Info", a top menu with "File Edit Share View Audio & Video Participant Meeting Breakout Sessions Help", a top row of participant thumbnails (M, HJ, BT), a bottom toolbar with "Unmute", "Start video", "Share", "Record", and "Apps", and a right sidebar with "Participants (95)" and a list of names including Mittal Darji, Mohini Darji, Naina Parmar, NAMRATA DAVE, neha minocha, NIDHI HADIYA, Nirmal Mangrolia, Nitin Patel, and Paresh Patel.



The screenshot shows a Webex meeting interface. The main content is a slide titled "Data Ecosystem" sponsored by GUJCOST. The slide features the SVNIT logo and the following text:

GUJCOST sponsored
STTP "Data Analytics and Visualization"
Data Ecosystem
Dr. Dipti P. Rana
Assistant Professor
Department of Computer Science and Engineering
Sardar Vallabhbhai National Institute of Technology (SVNIT)
Surat
dpr@coed.svnit.ac.in
Personal Page
@Information Technology Department
Sardar Vallabhbhai Patel Institute of Technology
Vasad

The meeting interface includes a top bar with "Webex Meeting Info", a top menu with "File Edit Share View Audio & Video Participant Meeting Breakout Sessions Help", a top row of participant thumbnails (KR, MD, PG), a bottom toolbar with "Unmute", "Start video", "Share", "Record", and "Apps", and a right sidebar with "Participants (84)" and a list of names including Bijal Talati (Host, me), Dipti Rana, sneha gaywala (Cohost), Ajaysinh Rathod, Akanksha Mishra, akash, Amit Chaudhari, Ankita Gandhi, and Ankita Shah.

Webex Meeting Info Show Menu Bar 44:18

Participants (80)

Viewing malamehta.it's screen - 88%

METHODS AND APPLICATIONS

- Clustering
 - Optimal Student Group Formation, Learner Group Identification, Grouping similar materials
- Prediction
 - Classification: Student Final Grade Prediction, Student placement prediction, Student Drop out Prediction
 - Regression: Institute Performance Prediction, Student Loan Repayment prediction, Student Performance prediction

Participants: Bijal Talati (Host), malamehta.it, sneha gaywala (Cohost), 41126_Parul_Bakaraniya, Ajaysinh Rathod, akash, Amit Ch, Ankit Gandhi, Ankit Gandhi, Bansari Patel

Unmute Start video Share Record

10:46 09-07-2022

Webex Meeting Info Hide Menu Bar 14:27

Participants (53)

Viewing Ramkumar S's screen - 59%

ABOUT ME

LinkedIn- Ramkumar Srinivasan
Tableau Public Profile : ramamcet

Participants: Bijal Talati (Host), Ramkumar S, sneha gaywala (Cohost), akash, Ankit Patel, Archana Patel, Bansari Patel, Bhupendra Patel, Riial Talati

Unmute Start video Share Record

10:20 08-07-2022

A screenshot of a Jupyter Notebook interface. The notebook is titled "data_manipulation" and shows the following code cells:

```
In [ ]: import pandas as pd
import numpy as np
import re
from wordcloud import WordCloud, STOPWORDS
import matplotlib.pyplot as plt
executed in 2.17s, finished 10:25:37 2022-07-06
```

Create a series from an array

```
In [ ]:
executed in 20ms, finished 08:41:24 2022-07-06
```

Assign indexes

```
In [ ]: mySeries=pd.Series([4,5,1],
Index(['Apples','Oranges','Grapes']))
mySeries
executed in 12ms, finished 10:25:37 2022-07-06
```

```
In [ ]: #Data Filtering
mySeries["Oranges"]
mySeries["Apples"] in mySeries
executed in 15ms, finished 10:25:37 2022-07-06
```

The interface includes a top navigation bar with "File", "Edit", "View", "Insert", "Cell", "Kernel", "Widgets", and "Help" menus. A "Run" button and a "Markdown" dropdown are also visible. The bottom status bar shows "Trusted" and "jupyter_env".

A screenshot of a Beamer presentation slide. The slide title is "Data Visualization with Power BI". The slide content is as follows:

- Data Visualization with Power BI**
- What is Data Visualization?**
- Data Visualization Capabilities**
- Importance of Data Visualization**
- Data Visualization Tools**

The Beamer interface includes a top navigation bar with "Home", "Insert", "Design", "Transitions", "Animations", "Slide Show", "Review", "View", and "Help" menus. A search bar is located in the top right corner. The bottom status bar shows "Mrugendra Rahekar" and "Share" and "Comments" buttons.