SIES Graduate School of Technology
Sri Chandrasekarendra Saraswati Vidyapuram
Sector 5, Nerul, Navimumbai-400706

Department of Computer Engineering

Event Report

Value Added Course on Data Visualization for Data Science

(24th June 2024 to 29th June 2024)

Event Information
Event Type:Value Added Course
Event title:Data Visualization for Data Science
Resource Person: Dr. Arathi Boyanapalli, Department of CE, SIESGST **Prof. Ujwala Ravale, Department of CE, SIESGST** **Ms. Tanvi Kshirsagar, Specialist, Research, Data Science @ TalentNeuron, Masters in Applied Statistics.**
Event date:24th June 2024 to 29th June 2024
Organized for:SE, TE , BE Students
Organized by:Department of Computer Engineering
Target audience (branch & nos.): CE , IT, EXTC, ECS, CSE IoT, AIDS, AIML
Attachments: 1. Photographs (in JPEG/PNG) **2. Attendance report** **3. Feedback** **4. Evaluation by Quiz** **5. Internship teams and Projects** **6. Sample Visualizations**

7. Impact Analysis

Event Description

The Department of Computer Engineering, SIESGST organized a value-added course on data visualization for data science for students from 24th June 2024 to 29th June 2024. A total of 46 participants attended the course.

The advanced topics of data science is data visualization refers to the process of generating graphical representations of information. These graphical depictions, often known as plots or charts, are pivotal in the realm of data science for effective analysis and interpretation.

During the session, resource persons gave hands-on training on Power BI, Tableau, and Advanced Excel. The session helped students create attractive dashboards using these data visualization tools for business intelligence.

TOPICS COVERED

- **Introduction To Data Visualization –** Basics of Data Visualization, Tools for Data Visualisation, Introduction to datasets and types.Data Visualisation using Python – Using Python, MatPlotLib, Seaborn, Pandas, Jupyter Notebooks,
- **Tableau -Basic Data Visualization** using Bar charts, Line Chart, Heat Map, Histogram, Slicing & Dicing Data – Sorting, Filtering, groups, Tooltip command Buttons.
- **Tableau Calculations & Filters:** Filters on Dimensions, Conditional Filters, Slicing Filters, Data Sourse Filters, Extract Filters
- **Advance Tableau Features**: Tableau Basic and advance calculations using Logical functions,
- **Dashboard Designing**, Dashboard publishing and sharing using Tableau.
- **Introduction to Power BI**: Installation of Power BI, Power BI – Need, importance, Business Challenge, Connecting Power BI to CSV files
- **Basic Data Visualization** using Bar charts, Line Chart, Heat Map, Histogram.
- **Basic Report Design –** Data Sources and Visual Types, Table, Tree map Visuals etc.
- **Visual Sync & Grouping –** Slicer Visuals – Number, Text, Date data, Slicer List & Slicer Dropdown
- **Introduction to Power Query-** Get data, Table Creation & Edit, Power Query Functions, Parameters
- **Dashboard Designing**, Dashboard publishing and sharing using Power BI

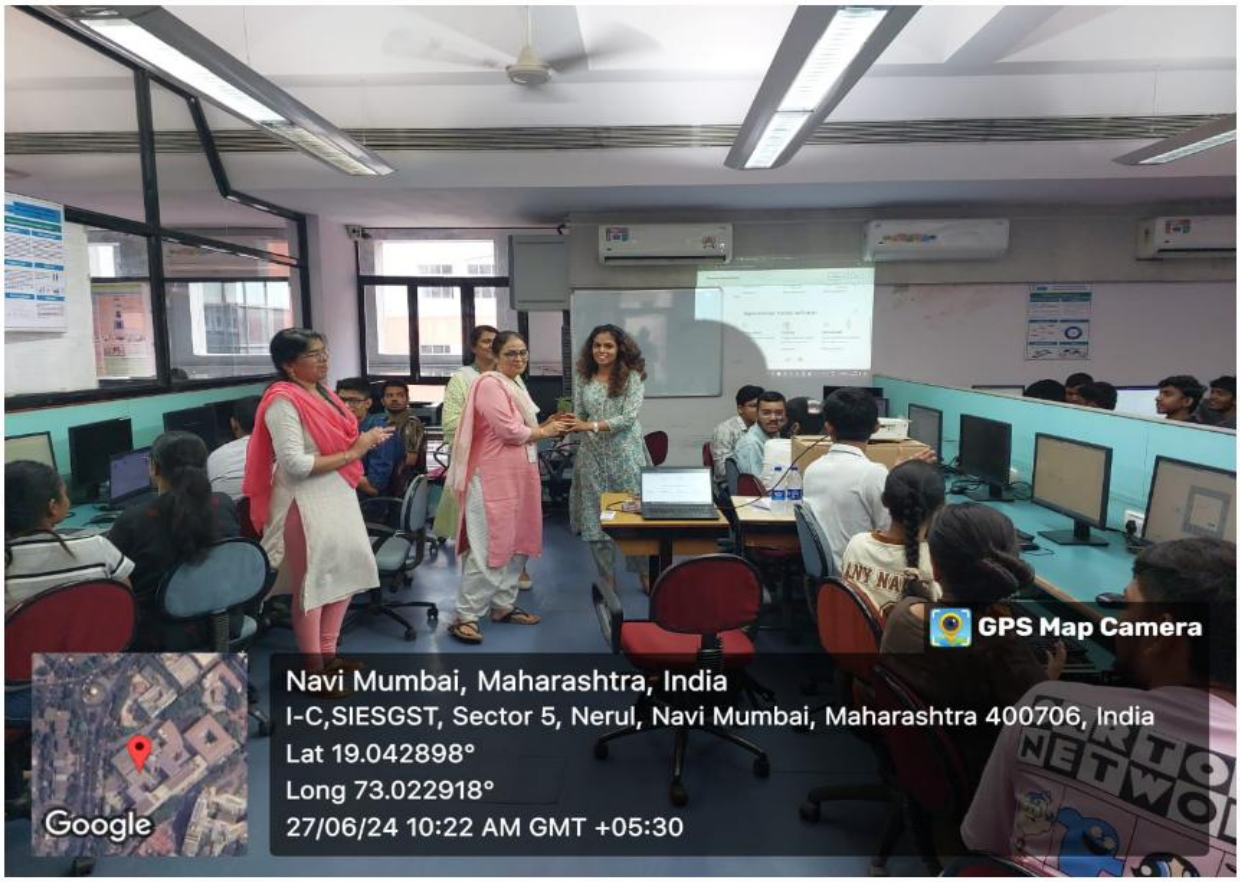
- **Advanced Excel –** Formatting Data with Pivot Tables, Sorting, Filtering and Grouping data with Pivot tables

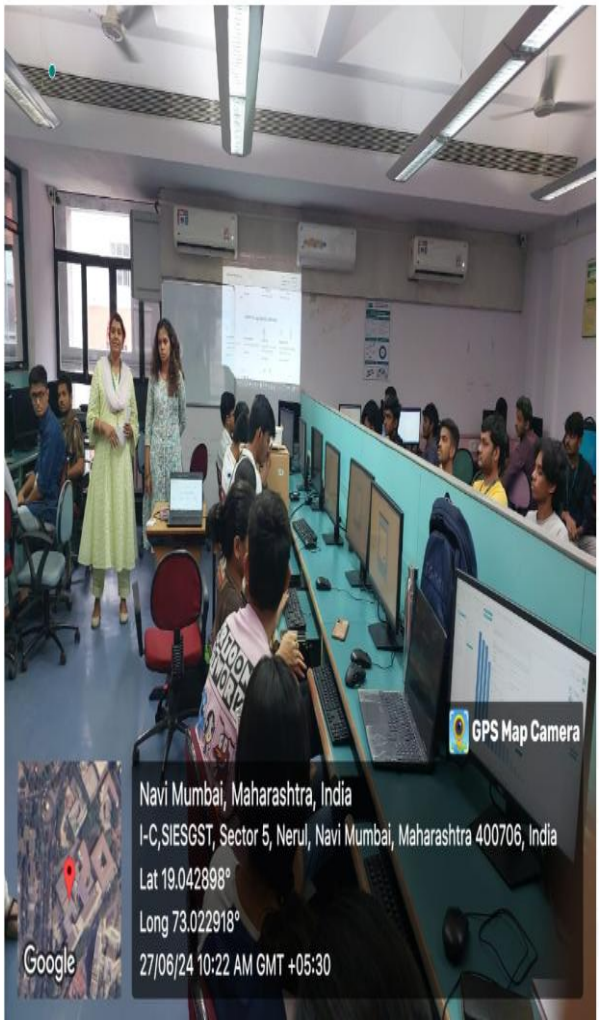
- **Case study: For Given Datasets**
  Create dashboard using Tableau
  Create dashboard using Power BI

STUDENT FEEDBACK:

The session was highly informative and allowed the students to get a brief knowledge about how to use different data visualization tools. Students have given very good feedback and were pleased with the flow and concepts covered in the session. As well as students understood how to use the learned concepts for their internship projects.

1. Photographs (in JPEG/PNG)

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Navi Mumbai, Maharashtra, India
I-C,SIESGST, Sector 5, Nerul, Navi Mumbai, Maharashtra 400706, India
Lat 19.042898°
Long 73.022918°
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Google

GPS Map Camera
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400706, India
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GPS Map Camera
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I-C,SIESGST, Sector 5, Nerul, Navi Mumbai, Maharashtra 400706, India
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GPS Map Camera
Navi Mumbai, Maharashtra, India
I-C,SIESGST, Sector 5, Nerul, Navi Mumbai, Maharashtra 400706, India
Lat 19.042898°
Long 73.022918°
28/06/24 10:21 AM GMT +05:30
Google

2. Attendance report

SIES Graduate School of Technology, Nerul
Department of Computer Engineering
Value added Course on Data visualization for Data Science
Attendance Sheet

Date: 24/6/2024 Morning.

Srno	Roll no	Name	Department	Year	Signature
1	223A8070	Tanvi More	AI & DS	TE	
2	122A6057	Spundan Bhagat	AI & DS	TE	
3	123A3028	Vaishnavi Anilkunjir	IT	BE	
4	123A7045	Mahika Rawool	ECS	SE	
5	122AX010	Anannya Manwar	CSE IOT	TE	
6	121A1020	Alisha Fernandes	CE	BE	
7	121A9055	Atharva Shinde	AIML	BE	
8	121A1016	Annaraj Birajdar	CE	BE	
9	122A1069	Omkar Choughule	CE	TE	
10	122A1028	Devashish Wankhade	CE	TE	
11	122A1058	Meera Patil	CE	TE	
12	122A1017	Anurag Mohit	CE	TE	
13	122A1036	Gokul SRINIVASAN	CE	TE	
14	123A9046	Suhail Shaikh	AIML	SE	
15	123A9061	Shreya Vetal	AIML	SE	
16	123A9028	Shrushti Mundada	AIML	SE	
17	123A9032	Gaurav Patil	AIML	SE	
18	122A1082	G.U. Gopikha	CE	TE	
19	122A1116	Vaishnavi S. Pradhan	CE	TE	
20	122A6002	Abdulla Perampalli	Mech	TE	
21	122A6015	Sabarinath Menon	Mech	TE	
22	122A6020	Tanishq S. Wadhwa	Mech	TE	
23	122[illegible]				
24	123A1009	Antony Deon Machado	CE	SE	
25	122A7013	Ayush Shukla	ECS	TE	
26	122A7011	Ashish Srivastav	ECS	TE	
27	122A1081	Sathish NADAR	CE	TE	
28	122A1057	Manobharathi Mugilan	CE	TE	
29	122A1051	M Durga prasath	CE	TE	
30	122A1066	NISHOK GANAPATHY	C.E	TE	
31	122AX060	Vedant patil	CSE-IOT	TE	
32	122A1110	Tanmay Dhole	CE	TE	
33	122A1103	Dhruv Shukla N	CE	TE	
34	122A1089	Shivam [illegible]	CE	TE	
35	122A1041	Jatin [illegible]	CE	TE	
36	122A1002	Abdurrahman Sarguroh	CSE IOT	TE	
37	124A2017	Dhruv J.	AI-DS	BE	

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Date: 24/6/2024 Session: Afternoon

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1	122A1036	GOKUL SRINIVASAN	CE	TE	
2	123A9062	GAURAV PRAVIN PATIL	AIML	SE	
3	123A7045	Mahika	ECS	SE	
4	122A1017	Anurag Gursanth Mohit	CE	TE	
5	123A9061	Shreya Uday Vetal	AIML	SE	
6	122A1032	G U Gopikha	CE	TE	
7	26/123A3028	Vaishnavi Anil Kunjir	IT	FE	
8	122A9001	Aanika Bhatnagar	AIML	TE	
9	123A9046	Mohammed Suhail Shaikh	AIML	SE	
10	122A9051	Shravani Wani	AIML	TE	
11	121A8017	Dhruv Jethva	AI DS	BE	
12	122A1110	Tanmay dhole	CE	TE	
13	121A8046	Ratul Raj	AI-DS	BE	
14	122A7010	Ashish Srivastav	ECS	TE	
15	121A1016	Annaraj Birajdar	CE	BE	
16	122A1116	Vaishnavi Sachin Pradhan	CE	TE	
17	122A1103	SUBHANESH NADAR	CE	TE	
18	122A1089	Shivam	CE	TE	
19	122A1041	Jatin shetty	CE	TE	
20	122AX010	Anannya Prashant Manwar	CSE IOT	TE	
21	122AX060	Vedant Sudhakar Patil	CSE IOT	TE	
22	122A1069	Omkar Rajesh Choughule	CE	TE	
23	122A7013	Ayush Shukla	ECS	TE	
24	123A9028	Shrushti Mundada	AIML	SE	
25	122AX002	Abdurrahman Sarguroh	CSE (IOT)	TE	
26	122A6020	Tanishq Sanjay Wadhwa	Mechanical	TE	
27	122A6015	Sabarinath Menon	Mechanical	TE	
28	122A8057	Spundan Vilas Bhagat	AIDS	TE	
29	122A6002	Abdulla Perampalli	Mechanical	TE	
30	121A9055	Atharva Shinde	AIML	BE	
31	223A8070	Tanvi More	Aids	TE	
32	122A7027	Aditya Mahesh Kinikar	ECS	SE	
33	121A1020	Alisha Fernandes	CE	BE	
34	122A1066	NISHOK GANAPATHY	C.E	TE	
35	122A1051	M DURGA PRASATH	CE	TE	
36	122A7053	Smeet hendre	Ecs	SE	
37	123A1009	Antony Deon Machado	CE	SE	

38	121A8046	Ratul Raj	AI-DS	B.E	
39	122A9051	Shravani Wani	AI-TAL	TE	
40	122A9001	Aanika Bhatnagar	AI-TAL	TE	
41	123A7066	Smeet Hendre	ECS	SE	
42	123A7027	Aditya Kinikar	ECS	SE	
43					
44					

38	122A1081	Sathish Nadar	CE	TE	
39	122A1057	Manobharathi Mugilan	CE	TE	
40	121A1040	Jatin Khan	CE	BE	
41	122A1028	Devashish Wankhade	CE	TE	
42	122A1058	Meera Patil	CE	TE	
43	123A7027	Aditya Kinikar	ECS	SE	
44	123A7066	Smeet Hendre	ECS	SE	

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2	GAURAV PRAVIN PATIL	AIML	SE	
3	Mahika	ECS	SE	
4	Anurag Guruanth Mohit	CE	TE	
5	Shreya Uday Vetal	AIML	SE	
6	G U Gopikha	CE	TE	
7	Vaishnavi Anil Kunjir	IT	FE	
8	Aanika Bhatnagar	AIML	TE	
9	Mohammed Suhail Shaikh	AIML	SE	
10	Shravani Wani	AIML	TE	
11	Dhruv Jethva	AI DS	BE	
12	Tanmay dhole	CE	TE	
13	Ratul Raj	AI-DS	BE	
14	Ashish Srivastav	ECS	TE	
15	Annaraj Birajdar	CE	BE	
16	Vaishnavi Sachin Pradhan	CE	TE	
17	SUBHANESH NADAR	CE	TE	
18	Shivam	CE	TE	
19	Jatin shetty	CE	TE	
20	Anannya Prashant Manwar	CSE IOT	TE	
21	Vedant Sudhakar Patil	CSE IOT	TE	
22	Omkar Rajesh Choughule	CE	TE	
23	Ayush Shukla	ECS	TE	
24	Shrushti Mundada	AIML	SE	
25	Abdurrahman Sarguroh	CSE (IOT)	TE	
26	Tanishq Sanjay Wadhwa	Mechanical	TE	
27	Sabarinath Menon	Mechanical	TE	
28	Spundan Vilas Bhagat	AIDS	TE	
29	Abdulla Perampalli	Mechanical	TE	
30	Atharva Shinde	AIML	BE	
31	Tanvi More	Aids	TE	
32	Aditya Mahesh Kinikar	ECS	SE	
33	Alisha Fernandes	CE	BE	
34	NISHOK GANAPATHY	C.E	TE	
35	M DURGA PRASATH	CE	TE	
36	Smeet hendre	Ecs	TE	

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5	Shreya Uday Vetal	AIML	SE	
6	G U Gopikha	CE	TE	
7	Vaishnavi Anil Kunjir	IT	FE	
8	Aanika Bhatnagar	AIML	TE	
9	Mohammed Suhail Shaikh	AIML	SE	
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11	Dhruv Jethva	AI DS	BE	
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37	Antony Deon Machado	CE	SE	
38	Sathish Nadar	CE	TE	
39	Manobharathi Mugilan	CE	TE	
40	Latif Khan	CE	BE	
41	Dewashish	CE	TE	
42	Meera Patil	CE	TE	
43	Vedshri Salunkhe	CSE IOT	TE	
44	Tanisha Kasliwal	ECS	SE	
45	Aditya Ghatkar	CE EIOT	TE	
46	Mahakumar Konar	CE	TE	
47	Sanath Shetty	CSE -IOT	BE	
48	Srushti Patare	B IT	BE	

37	Antony Deon Machado	CE	SE	
38	Sathish Nadar	CE	TE	
39	Manobharathi Mugilan	CE	TE	
40	Latif Khan	CE	BE	
41	Dewashish	CE	TE	
42	Meera Patil	CE	TE	
43	Sanath Shetty	CSE IOT	BE	
44	Srushti Patare	IT	BE	
45	Jiya Jaiswal	EXTC	BE	
46	Vedshri Salunkhe	CSD IOT	TE	

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Date :26/06/2024 **Session: Afternoon**

Srno	Name	Department	Year	Signature
1	GOKUL SRINIVASAN	CE	TE	
2	GAURAV PRAVIN PATIL	AIML	SE	
3	Mahika	ECS	SE	
4	Anurag Guruanth Mohit	CE	SE	
5	Shreya Uday Vetal	AIML	SE	
6	G U Gopikha	CE	TE	
7	Vaishnavi Anil Kunjir	IT	FE	
8	Aanika Bhatnagar	AIML	TE	
9	Mohammed Suhail Shaikh	AIML	SE	
10	Shravani Wani	AIML	TE	
11	Dhruv Jethva	AI DS	BE	
12	Tanmay dhole	CE	TE	
13	Ratul Raj	AI-DS	BE	
14	Ashish Srivastav	ECS	TE	
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36	Smeet hendre	Ecs	TE	
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38	Sathish Nadar	CE	TE	
39	Manobharathi Mugilan	CE	TE	
40	Latif Khan	CE	BE	

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Date :26/06/2024 **Session:Morning**

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2	GAURAV PRAVIN PATIL	AIML	SE	
3	Mahika	ECS	SE	
4	Anurag Guruanth Mohit	CE	SE TE	
5	Shreya Uday Vetal	AIML	SE	
6	G U Gopikha	CE	TE	
7	Vaishnavi Anil Kunjir	IT	FE	
8	Aanika Bhatnagar	AIML	TE	
9	Mohammed Suhail Shaikh	AIML	SE	
10	Shravani Wani	AIML	TE	
11	Dhruv Jethva	AI DS	BE	
12	Tanmay dhole	CE	TE	
13	Ratul Raj	AI-DS	BE	
14	Ashish Srivastav	ECS	TE	
15	Annaraj Birajdar	CE	BE	
16	Vaishnavi Sachin Pradhan	CE	TE	
17	SUBHANESH NADAR	CE	TE	
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21	Vedant Sudhakar Patil	CSE IOT	TE	
22	Omkar Rajesh Choughule	CE	TE	
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38	Sathish Nadar	CE	TE	
39	Manobharathi Mugilan	CE	TE	
40	Latif Khan	CE	BE	

41	Dewashish	CE	TE	
42	Meera Patil	CE	TE	
43	Tanisha Kashivad	ECS	SE	
44	Vedant Sawantdesai	CSE IOT	TE	
45	Sarath Shetty	CSE IOT	BE	
46	Shrishti PATNI	IT	BE	
47	Tena Jayaraj	EXTC	BE	
48	Sania Nandi	AIML	TE	
49				

41	Dewashish	CE	TE	
42	Meera Patil	CE	TE	
43	Tanisha Kashivad	ECS	SE	
44	Tena Jayaraj	EXTC	BE	
45	Chaitanya Mittal	CSE IOT	TE	
46	Ganiral Khopadi	EXTC	11M	
47	Shrushti Patane	IT	BE	
48	Sarath Shetty	CSE-IOT	BE	
49	Sania Nandi	AIML	TE	

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22	Omkar Rajesh Choughule	CE	TE	
23	Ayush Shukla	ECS	TE	
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31	Tanvi More	Aids	TE	
32	Aditya Mahesh Kinikar	ECS	SE	
33	Alisha Fernandes	CE	BE	
34	NISHOK GANAPATHY	C.E	TE	
35	M DURGA PRASATH	CE	TE	
36	Smeet hendre	Ecs	TE	
37	Antony Deon Machado	CE	SE	
38	Sathish Nadar	CE	TE	
39	Manobharathi Mugilan	CE	TE	
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35	M DURGA PRASATH	CE	TE	
36	Smeet hendre	Ecs	TE	
37	Antony Deon Machado	CE	SE	
38	Sathish Nadar	CE	TE	
39	Manobharathi Mugilan	CE	TE	
40	Latif Khan	CE	BE	

41	Dewashish	CE	TE	
42	Meera Patil	CE	TE	
43	Tanisha Kashiwal	ECS	SE	
44	Vedshri Salunkhe	CSE IOT	TE	
45	Sarath Shetty	CSE IOT	BE	
46	Swishti Patne	IT	BE	
47	Tina Jayaraj	EXTC	BE	
48				

41	Dewashish	CE	TE	
42	Meera Patil	CE	TE	
43	Tanisha Kashiwal	ECS	SE	
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Sr.no.	Name	Department	Year	Signature
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3	Mahika	ECS	SE	
4	Anurag Guruanth Mohit	CE	SE	
5	Shreya Uday Vetal	AIML	SE	
6	G U Gopikha	CE	TE	
7	Vaishnavi Anil Kunjir	IT	FE	
8	Aanika Bhatnagar	AIML	TE	
9	Mohammed Suhail Shaikh	AIML	SE	
10	Shravani Wani	AIML	TE	
11	Dhruv Jethva	AI DS	BE	
12	Tanmay dhole	CE	TE	
13	Ratul Raj	AI-DS	BE	
14	Ashish Srivastav	ECS	TE	
15	Annaraj Birajdar	CE	BE	
16	Vaishnavi Sachin Pradhan	CE	TE	
17	SUBHANESH NADAR	CE	TE	
18	Shivam	CE	TE	
19	Jatin shetty	CE	TE	
20	Anannya Prashant Manwar	CSE IOT	TE	
21	Vedant Sudhakar Patil	CSE IOT	TE	
22	Omkar Rajesh Choughule	CE	TE	
23	Ayush Shukla	ECS	TE	
24	Shrushti Mundada	AIML	SE	
25	Abdurrahman Sarguroh	CSE (IOT)	TE	
26	Tanishq Sanjay Wadhwa	Mechanical	TE	
27	Sabarinath Menon	Mechanical	TE	
28	Spundan Vilas Bhagat	AIDS	TE	
29	Abdulla Perampalli	Mechanical	TE	
30	Atharva Shinde	AIML	BE	
31	Tanvi More	Aids	TE	
32	Aditya Mahesh Kinikar	ECS	SE	
33	Alisha Fernandes	CE	BE	
34	NISHOK GANAPATHY	C.E	TE	
35	M DURGA PRASATH	CE	TE	
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38	Sathish Nadar	CE	TE	
39	Manobharathi Mugilan	CE	TE	
40	Latif Khan	CE	BE	
41	Dewashish	CE	TE	
42	Meera Patil	CE	TE	
43	Vedashri Salunkhe	CSE IOT	TE	
44	Tanisha Kaduval	ECS	SE	
45	Sarath Shetty	CSE - IOT	BE	
46	Shushti Patavle	IT	BE	
47	Tena Tayaraj	EXTC	BE	

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3	Mahika	ECS	SE	
4	Anurag Guruanth Mohit	CE	~~SETE~~	
5	Shreya Uday Vetal	AIML	SE	
6	G U Gopikha	CE	TE	G.U.Gopikha
7	Vaishnavi Anil Kunjir	IT	FE	
8	Aanika Bhatnagar	AIML	TE	
9	Mohammed Suhail Shaikh	AIML	SE	
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2	GAURAV PRAVIN PATIL	AIML	SE	
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4	Anurag Guruanth Mohit	CE	~~SE~~ TE	
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6	G U Gopikha	CE	TE	
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38	Sathish Nadar	CE	TE	
39	Manobharathi Mugilan	CE	TE	
40	Latif Khan	CE	BE	

41	Dewashish	CE	TE	
42	Meera Patil	CE	TE	
43	Sanchti Padane	IT	BE	
44	Sanath Shetty	CSE IOT	BE	
45	Tanisha Kasliwal	ECS	SE	
46	Vedshri Salunkhe	CSE IOT	TE	
47				
48				

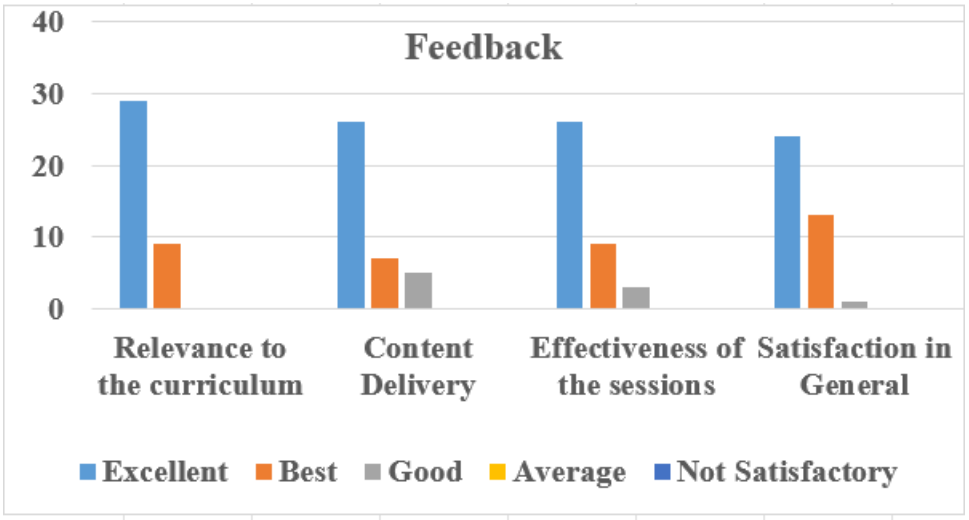
41	Dewashish	CE	TE	
42	Meera Patil	CE	TE	
43	Sanath Shetty	CSE	BE	
44	Srishti Padane	IT	BE	
45	Tanisha Kasliwal	ECS	SE	
46	Vedshri Salunkhe	CSE IOT	TE	
47				

3. Internship Teams and Projects

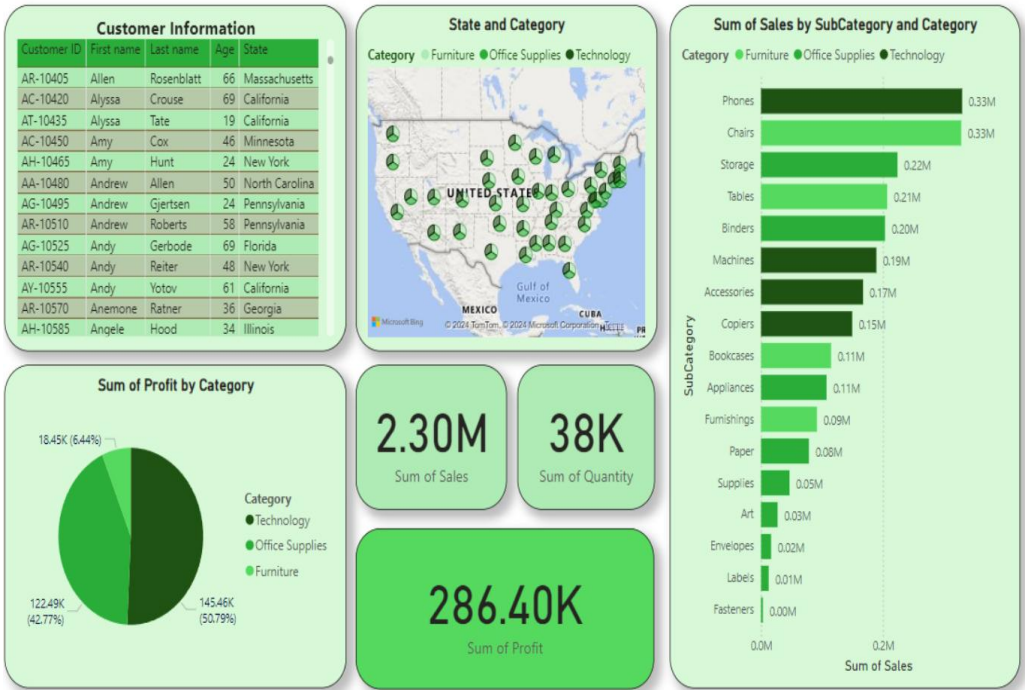
Sr. No	student_name	Class	Branch	project_name
1	Sathish Nadar	TE	CE	Video Game sales
2	NISHOK GANAPATHY	TE	CE	VIDEO GAME SALES
3	Ayush Anil Shukla	TE	ECS	Netflix Data Analysis
4	Antony Deon Machado	SE	CE	Netflix Data Analysis
5	Ashish G Srivastav	TE	ECS	Netflix Data Analysis
6	Tanvi More	TE	AIDS	Amazon Prime Video Data Analysis
7	Spundan Vilas Bhagat	TE	AIDS	Amazon prime video Data Analysis
8	M DURGA PRASATH	TE	CE	customer sales data visualization
9	MANOBHARATHI MIUGILAN	TE	CE	customer sales data visualization
10	GOKUL SRINIVASAN	TE	CE	1000 Bollywood Movies Dashboard
11	Anurag Gurunath Mohit	TE	CE	1000 Bollywood Movies Dashboard
12	Omkar Rajesh Choughule	TE	CE	1000 Bollywood Movies Dashboard
13	Dhruv Bhavin Jethva	BE	AIDS	CRICKET ANALYSIS DASHBOARD
14	Ratul Raj	BE	AIDS	Dashboard on Police Arrests
15	Mohammed Suhail Mubarakali Sha	SE	AIML	Data visualization on COVID-19
16	GAURAV PRAVIN PATIL	SE	AIML	Data visualization on COVID-19
17	Aanika Bhatnagar	TE	AIML	Indian Restaurants
18	Shravani Kishor Wani	TE	AIML	Indian Restaurants
19	Shivam Ashok Mane	TE	CE	Hr analytics
20	Jatin Jagannath Shetty	TE	CE	HR analytics
21	MEERA ARJUN PATIL	TE	CE	SALES DATA ANALYSIS
22	Dewashish Prabhakar Wankhade	TE	CE	SALES DATA ANALYSIS
23	Subhanesh Kumaraselvan Nadar	TE	CE	HR Analytics
24	Vedshri Kiran Salunkhe	TE	CSE-IoT	IPL 2024 Analysis
25	Anannya Prashant Manwar	TE	CSE-IoT	IPL 2024 Analysis
26	Abdurrahman Sarguroh	TE	CSE-IoT	ELECTRIC VEHICLE POPULATION
27	Tanmay Dhole	TE	CE	ELECTRIC VEHICLE POPULATION
28	Vedant Sudhakar Patil	TE	CSE-IoT	ELECTRIC VEHICLE POPULATION
29	Tanishq S Wadhwa	TE	Mechanical	Data analysis and Visualization of Rainfall in India
30	G U Gopikha	TE	CE	Data analysis and Visualization of Rainfall in India
31	Vaishnavi Sachin Pradhan	TE	CE	Data analysis and Visualization of Rainfall in India
32	Abdulla Taherahmed Perampalli	TE	Mechanical	Data analysis and Visualization of Rainfall in India

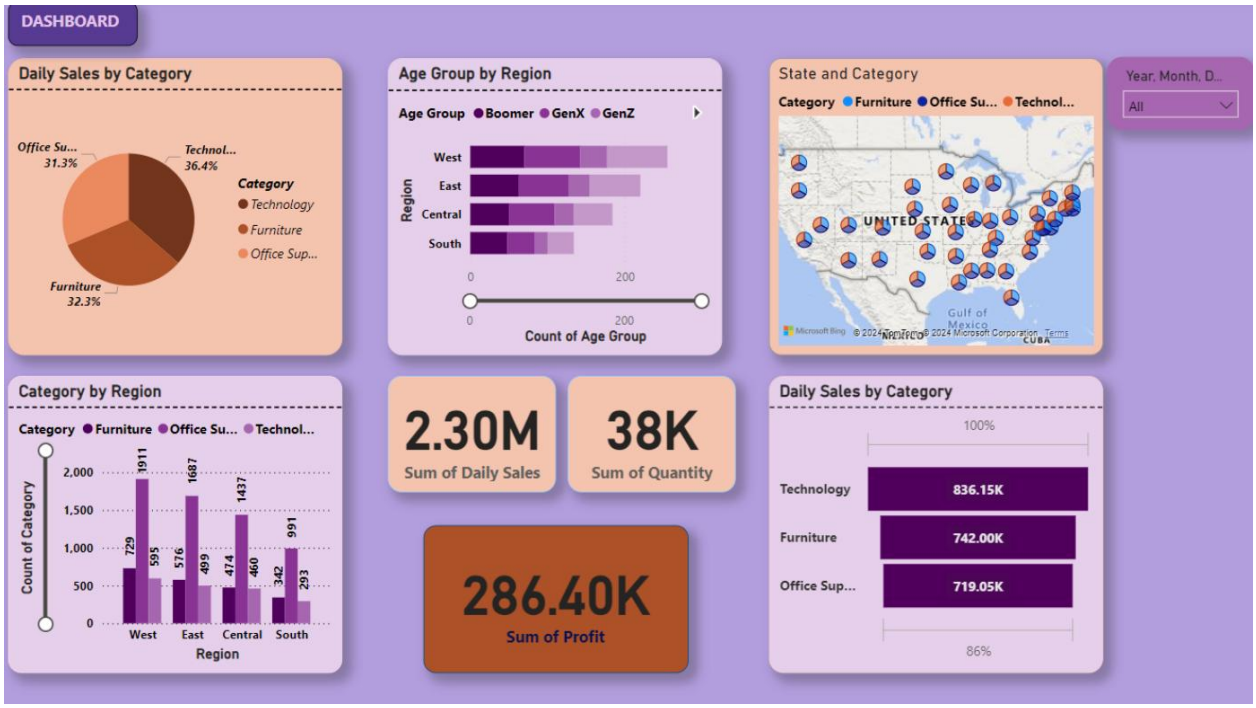
4. Feedback Analysis and Report

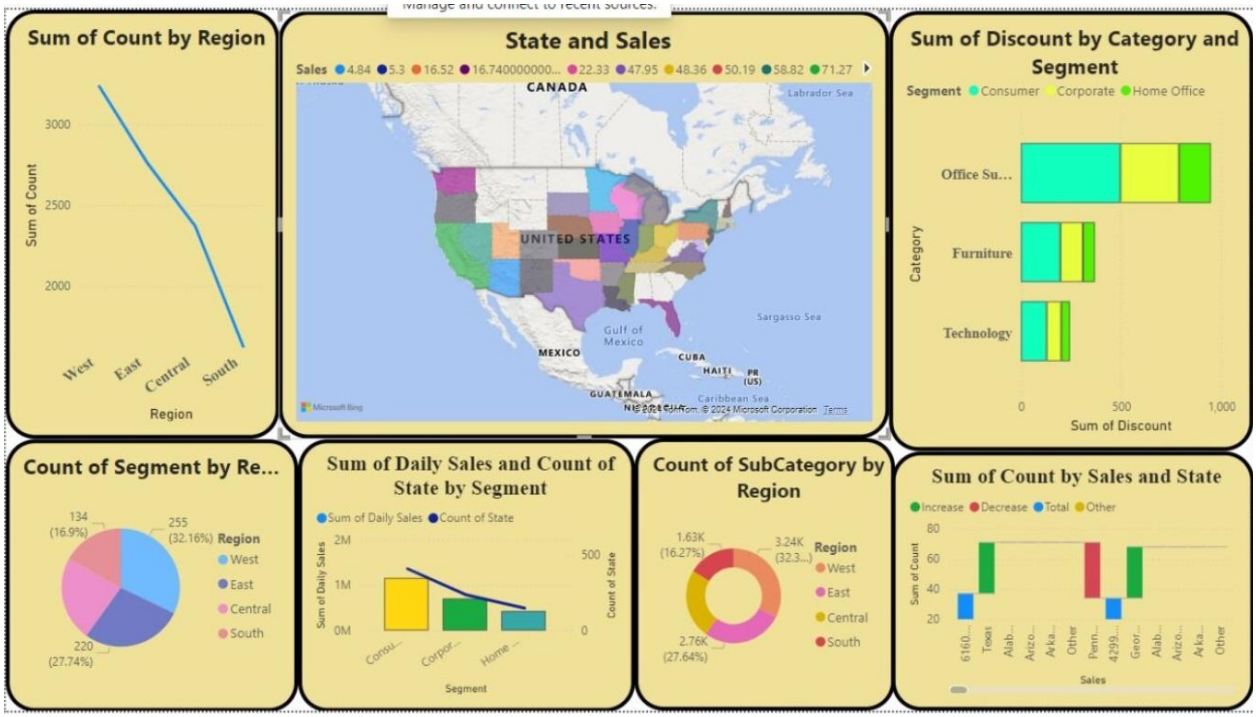
	Excellent	Best	Good	Average	Not Satisfactory
Relevance to the curriculum	**29**	**9**	**-**	**-**	**-**
Content Delivery	**26**	**7**	**5**	**-**	**-**
Effectiveness of the sessions	**26**	**9**	**3**	**-**	**-**
Satisfaction in General	**24**	**13**	**1**	**-**	**-**



5. Sample Visualizations







Impact Analysis: The incorporation of data visualization into a data science course for students has a profound impact on their learning experience and prospects. Firstly, it enhances the learning process by making complex data-related concepts more accessible and engaging. Students gain practical skills in interpreting and understanding data through visual representations, enabling them to identify patterns and trends effectively. Students could complete internship projects and develop dashboards using Power BI, Tableau, and Advanced Excel.