

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

Department of Computer Engineering <u>Event Report</u>

Value Added Course on Data Visualization for Data Science (26thJune 2023 to 1stJuly 2023)

Event Information

Event Type:Value Added Course

Event title:Data Visualization for Data Science

Resource Person: Prof. Ujwala Ravale, Department of CE, SIESGST Prof. Arathi Boyanapalli, Department of CE, SIESGST Mr. Moin Mhatarnaik , Data Analyst & Engineer , Revvity

Event date:26thJune 2023 to 1st July 2023

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

Value added course on Data Visualization for Data Science for students was organized by the Department of Computer Engineering from 26th June 2023 to 1st July 2023. There were total of 46 participants, who attended the course.

The advanced topics of data cience 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 had given hands on training on Power BI, Tableau, Advanced Excel. The session helped students for creation of 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)



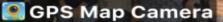








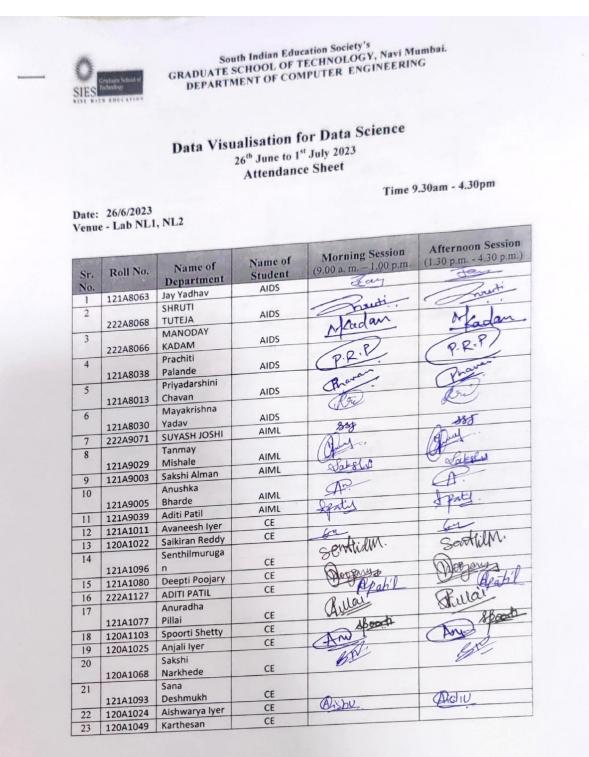






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2. Attendance report





Data Visualisation for Data Science 26th June to 1st July 2023 Attendance Sheet

Date: 27/6/2023 Venue - Lab NL1, NL2

Time 9.30am - 4.30pm

Sr. No.	Roll No.	Name of . Department	Name of Student	Morning Session (9.00 a. m. – 1.00 p.m.	Afternoon Session (1.30 p.m 4.30 p.m.)
1	121A8063	Jay Yadhav	AIDS	Jonkat	(1.50 p.m 4.50 p.m.)
2	222A8068	SHRUTI TUTEJA	AIDS	Bruti	Rowti
3	222A8066	MANODAY KADAM	AIDS	stadan	Malan
4	121A8038	Prachiti Palande	AIDS	P.R.P.	P.R.R.
5	121A8013	Priyadarshini Chavan	AIDS	Chavan	Provan
6	121A8030	Mayakrishna Yadav	AIDS	Rei	point
7	222A9071	SUYASH JOSHI	AIML	838	N T
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9	121A9003	Sakshi Alman	AIML		G
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Data Visualisation for Data Science 26th June to 1st July 2023 Attendance Sheet

Date: 29/6/2023 Venue - Lab NL1, NL2

Time 9.30am - 4.30pm

Sr. No.	Roll No.	Name of Department	Name of Student	Morning Session (9.00 a. m. – 1.00 p.m.	Afternoon Session (1.30 p.m 4.30 p.m.)
1		Yadhav Jay		Jonkat	Jonkat
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2	222A8068	Shruti Tuteja	AIDS	Romati	monti
3	222A8066	Manoday Kadam	AIDS	Madan	Madais.
4	121A8038	PRACHITI RAJESH PALANDE	AIDS	P.R.P	(P.P.P)
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Data Visualisation for Data Science 26th June to 1st July 2023 Attendance Sheet

Date: 30/6/2023 Venue - Lab NL1, NL2 Time 9.30am - 4.30pm

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Data Visualisation for Data Science 26th June to 3rd July 2023 Attendance Sheet

Time 9.30am - 4.30pm

Date: 03/7/2023 Venue - Lab NL1, NL2

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5	121A8013	Priyadarshini Chavan	AIDS	Proven	Provan
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Data Visualisation for Data Science 26th June to 3rd July 2023 Attendance Sheet

Time 9.30am - 4.30pm

Date: 05/7/2023 Venue - Lab NL1, NL2

Afternoon Name of **Morning Session** Roll No. Name of Sr. Session (9.00 a.m. - 1.00 p.m. Department Student No. (1.30 p.m. -4.30 p.m.) Yadhav Jay 1 AIDS 121A8063 Venkatesh hruti AIDS 2 222A8068 Shruti Tuteja AIDS Manoday Kadam 3 222A8066 **PRACHITI RAJESH** 4 R.V AIDS PALANDE 121A8038 payan 5 Priyadarshini Chavan AIDS 121A8013 Mayakrishna 6 AIDS 121A8030 Yadav AIML 7 222A9071 Suyash Joshi Tanmay Rajendra 8 AIML 121A9029 Mishale AIML 9 121A9003 Sakshi Anil Alman Anushka Bharde AIML 10 121A9005 AIML 121A9039 ADITI PATIL 11 12 Avaneesh 121A1011 Karthikeyan lyer CE 13 Guntaka Saikiran CE 120A1022 Reddy CE 14 Senthilmurugan 121A1096 Deepti Umesh 15 121A1080 Poojary CE 16 Aditi Jagannath CE 222A1127 Patil 17 121A1077 Anuradha Pillai CE 18 Spoorti Rajat Shetty CE 120A1103 19 Iyer Anjali 120A1025 Subramanian CE 20 Sakshi Pramod CE 120A1068 Narkhede

3. Feedback Report

Roll No	Name of Student	Relevance to the curriculum	Content Delivery	Effectiveness of the sessions	Satisfaction in General	Suggestions, if any
121A1085	Purva Ambre	4	4	4	4	No
121A3043	Ritik Shukla	4	4	4	3	No any Suggestions i think need here, everything was great.
121A1011	Avanees h Karthike yan Iyer	5	5	5	5	-
120A1049	Mahalax mi Karthesa n	4	4	4	4	
120A3007	Chinmay Devadiga	5	5	5	5	No suggestions
120A2040	Rohan Salvi	4	4	4	4	-
121A2045	Shivpriya Atul Kadam	5	5	5	5	none
121A3052	HariOm Shukla	4	4	4	4	No suggestions! Sessions were great!
121A3007	Arnab Samanta	4	4	4	4	It was a good experience
222A1135	Sanika Sandeep Kurale	4	4	5	4	Nope
121A1081	Pranitha Sukumar	5	5	5	5	Good
121A1077	Anuradh a Pillai	5	5	5	5	The Course really helped me to gain hands knowledge on Data Visualisation. Thank you Ujwala

						ma'am and Arthi ma'am.
121A9003	Sakshi	4	4	4	4	No
1217/003	Anil		-		-	NO
	Alman					
121A9039	ADITI	4	4	4	4	No
121/1/037	PATIL			т	т	NO
121A9005	Anushka	4	4	4	4	No
1217/005	Bharde		-		-	NO
120A1103	Spoorti	4	4	4	4	No, it was
12041103	Rajat Shetty	4	7	4	4	great and informative overall
121A3060	Prajwal	4	4	4	4	overall
12173000	Arun		-		7	
	Waghmo					
	de					
120A1025	lyer	5	5	5	5	-
120/(1025	Anjali	5	5	5	5	
	Subrama					
	nian					
121A8063	Jay	5	5	5	5	Na
12 11 10000	Venkates	Ŭ	Ŭ	0	0	i tu
	h Yadhav					
222A8068	Shruti R	5	5	5	5	-
	Tuteja	Ũ	Ŭ	0	Ū.	
121A8030	Mayakris	4	4	4	4	Nothing
	hna					. to thing
	Yadav					
120A1051	Samiksha	5	5	5	5	
	Mane				C	
121A3042	Vikhyat	5	5	5	5	-
	Mohand				Ũ	
	as Rai					
121A9029	Tanmay	5	5	5	5	
	Mishalr	-		-	-	
121A1067	Nandana	4	4	4	4	No
	Anil				-	
121A1080	Deepti	4	4	4	4	No
	Umesh					-
	Poojary					
222A8066	Manoda	5	5	5	5	No
	y kadam	_	-		_	-
120A1011	Nikita	5	5	5	5	Good
	Chaudha	-	-	-	5	-
	ri					
222A9071	Suyash	4	4	4	4	No
	Joshi	.				suggestions
120A1042	KMR	5	5	5	5	-
	DEEPTHI	Ŭ	-		Ū.	

121A8038	PRACHITI	5	5	5	5	None
	PALAND E					
121A1096	Senthilm	4	4	4	4	No
10011000	urugan					
120A1039	Kaustubh	5	5	5	5	•
	Sonawan					
10041004	e Alabaaraa					
120A1024	Aishwary	4	5	4	4	•
101010/0	a lyer					
121A1069	Amit	5	5	5	5	no
	BhimajiN					suggestions
10041040	arsale					
120A1048	Pranav	4	4	4	4	No all good
	Dilip					
10047047	Mahadik					
120A7047	Sakshi	4	3	4	4	-
	Sakhare					
222A1129	Mitali	5	5	5	5	Thank you
	Dinesh					
-	Mahajan					
222A1127	Aditi	4	4	4	4	course could
	Jagannat					have included
	h Patil					some data
						cleaning
						concepts too.
120A1105	Shradha	5	5	5	5	
	Sahu					
121A1108	Avishka	5	5	5	5	No
	Sanjay					
	Sonawan					
	е					

4. Evaluation by Quiz

Data Visualization for Data Science Quiz- Value added course

* Required

* This form will record your name, please fill your name.

1. To connect Tableau to a CSV data source what type of connection should you use? * (1 Point)



- 🔵 Text File
- Access File
- statistical File

- 2. What are the two main groups that all fields are broken up into in Tableau? * (1 Point)
 - Items and Regions
 - Labels and Values
 - Details and Quantities
 - Dimensions and Measures
- 3. What are calculated fields in Tableau? * (1 Point)
 - There is only one calculated field in Tableau : 'Number of Records'
 - Any numeric field is a calculation field because it can be used in calculation.
 - These are custom variables that you create from fields provided in the data.
 - Calculated fields have to be created in Excel and then imported into tableau
- 4. How many fields can you add to be shown in the label? * (1 Point)
 - Maximum 1
 - Maximum 2
 - Maximum 3
 - 🔿 No Limit

- 5. Which of these is a valid reason to use a Data Extract over a Live Connection to the Dataset in Tableau? * (1 Point)
 - Extracts always take up less space than Tableau
 - Extracting data automatically fixes any data errors.
 - your data is in Excel there fore you have to create an Extract in Tableau
 - your data is constantly updating and you want to work with a static file when building your visual.
- How does Tableau know at which level to aggregate values? *

 (1 Point)
 - Values are always aggregated at Month Level
 - O Values are always aggregated at one level above the level of granularity of the worksheet.
 - values are always aggregated at the level of granularity of the worksheet
 - Values are always aggregated at the maximum level of granularity of all of the worksheets in the workbook.
- Which of these is NOT a type of Quick Filter available in Tableau? * (1 Point)
 - Single Value (List)
 - Multiple Values (List)
 - Wildcard Match
 - JSON Lookup (Category)

- 8. Which of the following are different ways you can select the worksheets to which you want to apply a filter? * (1 Point)
 - All using this Datasource
 Selected Worksheets
 Only This Worksheet
 All of the above
- 9. To add worksheets to a dashboard you can simply drag them onto the dashboard. * (1 Point)
 - True
 - False
- 10. You can automatically generate Actions: Filter in Tableau through the dropdown of the selected worksheet in your dashboard. * (1 Point)
 - True
 - 🔵 False

- 11. What happens when one of the tables has duplicate values in the join clause? * (1 Point)
 - O Duplicate Values get ignored
 - Duplicate values are used, but only up to two times
 - The Join produces an error.
 - O The matching row of the other table is replicated to accommodate the nuber of duplicates.
- 12. Data Blending in Tableau happens after aggregation is performed on the separate datasets * (1 Point)



False

- 13. Which of the following is NOT a Quick Table Calculation in Tableau? * (1 Point)
 - Percentage of Total
 - Running of Total
 - Moving Average
 - Stochastic Oscillation

- 14. Which of these is a type of allowable values for any parameter? * (1 Point)
 - O ALL
 - 🔵 List
 - Range
 - All the above
- 15. What is the main visual element of a treemap called? * (1 Point)

\bigcirc	Вох
\bigcirc	Tree
\bigcirc	Branch
\bigcirc	Eco-Leaf

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Result of Evaluation

ID	Start time	Name	Total points
1	6-30-23 19:29:49	Avaneesh Iyer	11
2	7-1-23 9:26:37	Purva Ambre	14
3	7-1-23 13:47:47	Deepti Poojary	13
4	7-1-23 14:10:47	Vinitha Udaiyar	12
5	7-1-23 14:31:02	Rohan Salvi	12
6	7-1-23 14:32:26	Shivpriya Kadam	12
7	7-1-23 17:07:17	Avishka Sonawane	14
8	7-1-23 18:57:48	Rasmica Pranitha	13
9	7-1-23 19:31:33	Anuradha Pillai	12
10	7-2-23 15:25:37	Anil Nandana	14
11	7-2-23 18:40:48	Saikiran Reddy	11
12	7-2-23 19:15:03	SANIKA KURALE	11
13	7-2-23 22:15:17	Spoorti Shetty	12
14	7-3-23 18:52:18	Prajwal Waghmode	12
15	7-3-23 19:05:57	Vikhyat Rai	8
16	7-3-23 19:35:40	Chinmay Devadiga	9
17	7-3-23 20:33:14	Hariom Shukla	10
18	7-3-23 20:23:06	ADITI PATIL	11
19	7-3-23 21:47:24	Ritik Shukla	10
20	7-3-23 22:14:27	Sakshi Narkhede	11
21	7-3-23 23:37:58	MITALI MAHAJAN	8
22	7-3-23 23:47:46	Jay Yadhav	8
23	7-4-23 0:12:26	Nikita Chaudhari	11
24	7-4-23 7:34:20	Prachiti Palande	12
25	7-4-23 14:51:28	Sakshi Alman	11
26	7-4-23 14:24:49	Anushka Bharde	12
27	7-4-23 15:04:11	Aditi Patil	13
28	7-4-23 16:39:22	Tanmay Mishale	14
29	7-4-23 16:47:59	Mayakrishna Yadav	11
30	7-4-23 16:10:42	Senthilmurugan	12
31	7-4-23 17:13:52	SUYASH JOSHI	12
32	7-4-23 19:12:22	Priyadarshini Chavan	10
33	7-4-23 22:26:50	Kaustubh Sonawane	13
34	7-4-23 22:15:32	Samanta Amar	10
35	7-5-23 0:15:19	SHRUTI TUTEJA	10
36	7-5-23 11:08:00	Shradha Sahu	12
37	7-5-23 11:48:12	Deepthi Kmr	9
38	7-5-23 11:39:44	Anjali Iyer	10
39	7-5-23 11:42:16	Preethi Kmr	9
40	7-5-23 11:47:55	Karthesan Mahalaxmi	13
41	7-6-23 12:32:11	Samiksha Mane	13

7-20-23 16:40:23	Sakshi Amol	9
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5. Internship Teams and Projects

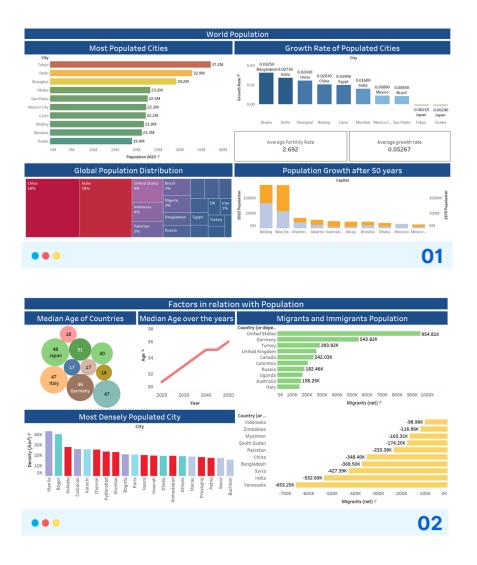
42

Srno	Group no	Name of the student	Dataset
1		Sana Deshmukh	https://www.kaggle.com/datasets/
2	1	Aryan Chalke	oles04/bundesliga-soccer-player
3		Anuradha Pillai	https://www.kaggle.com/datasets/
4	2	Pranitha Sukumar	thirumani/shark-tank-india
		Arnab Samanta	https://www.kaggle.com/datasets/
5	3	Vikhyat Rai	_ ravibarnawal/mutual-funds-india-
6		Prajwal Waghmode	detailed
7		Ritik Shukla	https://www.kaggle.com/datasets/
8	4	HariOm Shukla	lava18/google-play-store-apps
		Avaneesh Karthikeyan	https://www.kaggle.com/datasets/
9		lyer	arnabchaki/indian-restaurants-
10	5	Jay Venkatesh	2023
11		Mayakrishna Yadav	
12	6	Senthilmurugan Selvakumar	https://www.kaggle.com/datasets/ gregorut/videogamesales
13		PRACHITI PALANDE	grogerati nacogamesalos
10	-	PRIYADARSHINI	 www.kaggle.com/datasets/shivam
14	7	CHAVAN	b/netflix-shows
15		Aditi J Patil	https://www.kaggle.com/datasets/
16	8	Manoday Kadam	himanshupoddar/zomato- bangalore-restaurants
10	0	MAHALAXMI	
17		KARTHESAN	https://www.kaggle.com/datasets/ patrickb1912/ipl-complete-dataset-
18	9	KMR PREETHI	20082020
19		ANJALI IYER	https://www.kaggle.com/datasets/
			niharika41298/egg-production-
20	10	KMR DEEPTHI	dataset-state-wise-india
21	-	Shivpriya Kadam	https://www.kaggle.com/datasets/ rajkumarpandey02/world-most-
22	11	Rohan Salvi	populated-city-2022-to-2023
23		Nikita Chaudhari	https://www.kaggle.com/datasets/
			azim069/yahoo-finance-crypto-
24	12	Kaustubh Sonawane	real-time-prices-dataset
25	-	Shruti Tuteja	https://www.kaggle.com/datasets/ nishantbhardwaj07/airindia-
26	13	Suyash Joshi	monthly-passenger-traffic
27		Deepti Poojary	https://www.kaggle.com/datasets/
28	14	Avishka Sonawane	rajkumarpandey02/rainfall-in-all-

			india-dataset-1901-2016
29		Purva Ambre	https://www.kaggle.com/datasets/
30	15	Nandana Anil	oles04/bundesliga-seasons
31		Vinitha Udaiyar	https://www.kaggle.com/datasets/
22	1/	Calvahi Calvhana	bilalwaseer/top-1000-bollywood-
32	16	Sakshi Sakhare	movies-and-their-box-office
33		Aishwarya Iyer	
34	17	Samiksha Mane	https://www.kaggle.com/datasets/
35		Sakshi Narkhede	utkarshx27/movies-dataset
36	18	Sanika Kurale	Walmart Dashboard in Tableau
37		Mitali Mahajan	Kaggle
38	19	Shradha Sahu	Top Trends on TikTok
			&YoutubeShorts 2022 summer
39		Spoorti Shetty	<u>Kaggle</u>
40	20	Saikiran Reddy	
41		Pranav Mahadik	Happiness and Corruption 2015-
42		Chinmay Devadiga	2020 Kaggle
43	21	Tanmay Mishale	
44		Aditi Patil	<u>0</u>
45	22	Anushka Bharde	https://data.gov.sg/dataset/reside
46		Sakshi Alman	nt-population-by-ethnicity-gender- and-age-group

6. 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 future 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 developed dashboards using Power Bi, Tableau and Advanced Excel.