

G.S. Mandal's
Maharashtra Institute of Technology
Chhatrapati Sambhajiagar (An Autonomous Institute)

Event type:- Workshop

Event Title:- Data visualisation Tools and Techniques

Event Date: 4th March to 9th March 2024

Gist of the Event:

Department of Emerging Science and Technology, MIT Aurangabad had organized workshop on “**Data visualisation Tools and Techniques**” on 4th March to 9th March 2024, at 10.00 am to 12:15pm.

The conference was Inaugurated by Dr Kavita Bhosale HOD of the Dept of Emerging Science and Technology, MIT Aurangabad, addressed by Prof. N.G Patil, Director General, MIT Aurangabad, Dr Kavita Bhosale discussed the preamble & objective of the workshop. Vote of thanks by Aniket Andhale. The workshop aimed to introduce participants to various data visualization tools and techniques, with a focus on practical applications. The sessions were conducted by Ms. Remaya R S, a seasoned Technical Trainer with expertise in PowerBI, Python, Machine Learning, and Data Science. Her dynamic training approach and extensive experience in the field ensured that participants gained valuable insights and practical skills in data visualization.

The workshop revolved around enhancing participants' skills in utilizing data visualization tools and techniques effectively. The primary focus was on Tableau and PowerBI, two prominent platforms widely used in the industry for data visualization. With the exponential growth of data, the ability to extract actionable insights and communicate them visually has become crucial for professionals in various fields. Through this workshop, participants were equipped with the necessary skills to transform complex data into visually appealing and understandable representations. This workshop was particularly important for students as it provided them with a competitive edge in the job market and prepared them for real-world data analysis and presentation challenges.

Data visualization is a powerful tool that aids in comprehending and communicating complex information effectively. By mastering tools like Tableau and PowerBI, participants gained the ability to create visually impactful and interactive dashboards, reports, and presentations, which are highly sought after in industries such as finance, marketing, healthcare, and more.

The first two days of the workshop provided participants with an introduction to data visualization tools such as Tableau and Power BI. By providing a historical overview and real-life case studies of their applications, participants gained a better understanding of the

importance of data visualization in today's world. Moreover, they learned how to install Tableau and Power BI software on their computers, preparing them for the workshop's subsequent sessions. Lastly, they were trained on how to create basic charts and graphs using Tableau, setting the foundation for the more advanced visualizations.

On day three, the workshop shifted its focus to various charts and functions in Tableau. Moreover, participants gained insights on the importance of representing data effectively. On day four of the workshop, participants were introduced to PowerBI with a focus on its interface and how to take data from various sources and combine different files, such as websites, cloud, text, and sheets. They also learned how to transform data and how PowerBI already provides the data with required attributes smartly. Participants were also taught how to perform EDA on the data and how to use the PowerBI workbook efficiently.

With a focus on data cleaning, day five began with a session introducing the process of web scraping, data cleaning of various sheets with anomalies, and transformations on data, specifically cleaning in PowerBI. Participants gained knowledge on how to merge columns, clean excel sheets, and how to use different functions in PowerBI. Day six was dedicated to a case study on Zomato data analysis. Participants learned how to create visuals, give shapes and design them, create visual reports on Zomato.

In conclusion, the six-day online workshop provided participants with a comprehensive understanding of data visualization tools and techniques, with a focus on Tableau and Power BI. A total of 199 attendees participated in the workshop, enhancing its impact and reach. The workshop successfully covered the historical background, comparison, and real-life applications of these tools. Participants also gained hands-on experience through practical sessions on data insertion and creating charts, graphs, dashboards, and stories using Tableau. The positive response from the faculty, students, and participants, along with a vote of thanks from Aniket Andhale, added to the overall success and collaborative spirit of the workshop.

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Table.Combine([*AdventureworksSales2015-210508-235702], [*AdventureworksSales2016-210509-235702], [*AdventureworksSales2017-235702])

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2/2/2015	12/22/2001	5045083	312	24947	10	1
1/2/2015	10/12/2001	5045084	320	29143	4	1
1/2/2015	12/28/2001	5045086	324	18747	9	1
1/2/2015	10/9/2001	5045085	312	18748	9	1
1/2/2015	10/2/2001	5045093	312	18906	9	1
2/2/2015	9/26/2001	5045090	320	29170	4	1
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1/2/2015	10/24/2001	5045092	312	18899	9	1
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1/2/2015	9/12/2001	5045087	350	11388	10	2
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1/2/2015	11/24/2001	5045102	320	29274	4	1
1/2/2015	10/17/2001	5045104	320	29142	4	1
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1/2/2015	9/29/2001	5045111	348	29064	4	1

remyarsjob@gmail.com (External) 8:27 AM 8/8/2024

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Sum of ProductPrice by Category

Sum of ProductCost by SubcategoryName

Sum of OrderQuantity by ProductName

remyarsjob@gmail.com (External) 9:36 AM 8/8/2024

remyarsjob@gmail.com (E...)

SD Soham Dalal (Unverified)

I Isha (Unverified)

SS Siddhi Sethi (Unverified)

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ZOMATO DATA ANALYSIS

Avg. Cost 602.94 **Avg. Rating** 3.70 **No. of Rest** 41K **Rest. Types** 7 **Total Votes** 15M **No. of Locations** 30

book_table	No	Yes	Total
No	534.86	456.37	482.46
Yes	1,543.82	1,093.99	1,276.14
Total	715.47	544.09	602.94

book_table	No	Yes	Total
No	3.55	3.66	3.62
Yes	4.16	4.13	4.14
Total	3.66	3.72	3.70

book_table	No	Yes	Total
No	2252286	4922247	7174533
Yes	2959041	4382981	7342022
Total	5211327	9305228	14516555

Location	Avg. Cost	Avg. Rating	Total Votes
Koramangala 7th Block	559.11	3.76	1054352
Koramangala 5th Block	563.11	3.76	1026369
Koramangala 4th Block	564.41	3.76	981038
BTM	529.96	3.71	975725
Koramangala 6th Block	558.23	3.76	967188
Indiranagar	703.21	3.75	770997
MG Road	828.72	3.80	716836
Church Street	849.63	3.80	670489
Brihade Road	838.70	3.80	646386
Total	602.94	3.70	14516555

Proportion of book_table
 35K (84.87%)
 6K (15.13%)

Proportion of online_order
 14K (94.3%)
 1K (5.66%)

Rest Types: Facility and Location

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ZOMATO DATA ANALYSIS

Avg. Cost 602.94 **Avg. Rating** 3.70 **No. of Rest** 41K **Rest. Types** 7 **Total Votes** 15M **No. of Locations** 30

Proportion of Restaurant Types

- Delivery (85.7%)
- Dine-out (14.3%)

Place
 Bengaluru, Bengaluru East, Bengaluru South

Avg. Rating vs Rest. Type

rest_type	Avg. Rating
Pub and bars	4.0
Drinks & ngs	4.0
Buffet	4.0
Cafes	3.9
Desserts	3.8
Dine-out	3.7
Delivery	3.7

Avg. Cost vs Rest. Type

rest_type	Avg. Cost
Drinks & ngs	1,454.10
Pub and bars	1,114.55
Buffet	954.20
Cafes	854.88
Desserts	854.88
Dine-out	854.88
Delivery	854.88

Proportion of Votes

- Delivery (85.14%)
- Dine-out (14.86%)

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remyarsjob@gmail.com (External)

dipa dharmadhikari (Unverified)

Ram Kanhe

HS

habeeba siddiqui (Unverified)

Kavita Bhoosle

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