



SHORT-TERM INTERNSHIP



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VISAKHAPATNAM**

Acknowledgements

This Powerbi presentation on topic "European Film Production Companies" with Company ID's, employee and crew information etc was made possible through the contributions of several individuals and organisations, we acknowledge the Power bi community for their valuable resources, tutorials and forums that aided in our project development, we thank for creating a powerful and intuitive platform for data visualization and analysis. We thank for their expertise in employee and crew information, which informed our predictive model. We thank for the providing of data related to companies used in the project. We thank our team members for their contributions to data analysis and visualizations and insights. We acknowledge organization for providing the resources and necessary support to complete this project.

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CHAPTER - I : EXECUTIVE SUMMARY

Description of the sector of business Intern organization

Smart bridge operates in the data analytics sector providing innovative solutions to enhance business intelligence. The organization leverages power with actionable insights, enabling data driven decision making.

Learning objectives and outcomes

1. Understand Power BI fundamentals
2. Data modeling
3. Proficiency in Power BI tools
4. Data cleaning and transformation.
5. Data visualization
6. Report Design & sharing

Summary of internship Activities

1. Attending live training sessions and project-mentoring sessions
2. Selection of topic - "European film production companies and gathering, cleaning and analyzing its related data sets in excel.
3. Team formation and assignment of tasks to team members
4. Designing developing interactive dashboards story report on project using power bi
5. Drafting a project video demonstration and preparation of final report.

Chapter-2: overview of the organization

Smart Bridge is a platform that offers virtual internship to the students. The platform's ideal is to prepare students for the job market by establishing a cooperative relationship between industry Academic. Smart Bridge partners with companies such as Google to offer virtual internships. The internships provide students with hands on experiments with the latest technologies and enable project based learning. Smart Bridge's flagship event is the "Summer Internship Program". The program develops students' skills in emerging technologies i.e. 1) Artificial intelligence 2) Machine learning 3) Internet of things.

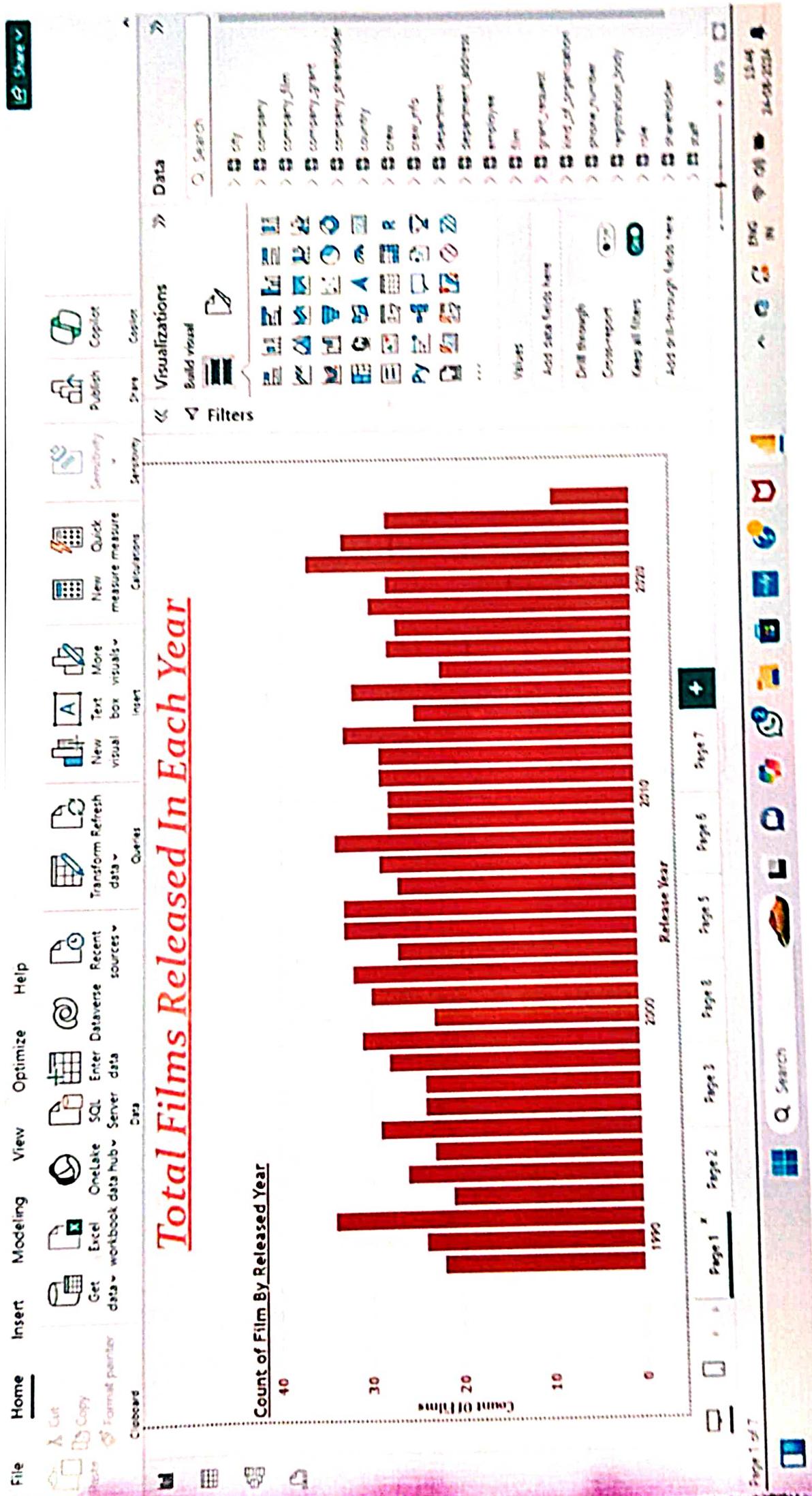
organization's objective:

Smart bridge's main objective is to bridge the existing gap between prevailing industry standards and what the academics offers to the graduates while passing out of University. Smart bridge offers suitable skill development of training to the young talent before on boarding their first job their skill development programs are designed considering the present in demand skills in the industry. Therefore the main objective of Smart bridge is providing internship for every student promote industry approved professional electives become a talent factor of India by 2026.

Chapter -3 : Internship Part

Description of the activities / responsibilities undertaken

- 1) Registering the with APSCHE smart internship enrolling for smart bridge's data analytics course i.e live training sessions as per the pre-scheduled training calendar.
- 2) Participating weekly quiz completing weekly assignment with respect to data analytics.
- 3) Gathering, cleaning analyzing the excel data sets of the project topic - "Analysis of election in India".
- 4) Gathering team formation selection of project topic - "Analysis of election in India".
- 5) Attending project mentoring sessions and designing and developing interactive dashboard Report on the project topic using power BI.
- 6) web integration of above project deliverables with team's webpage using visual studio code. Drafting a project video demonstration and preparation of final report.
- 7) Submission of team project via uploading one project files in github Repository of the team.

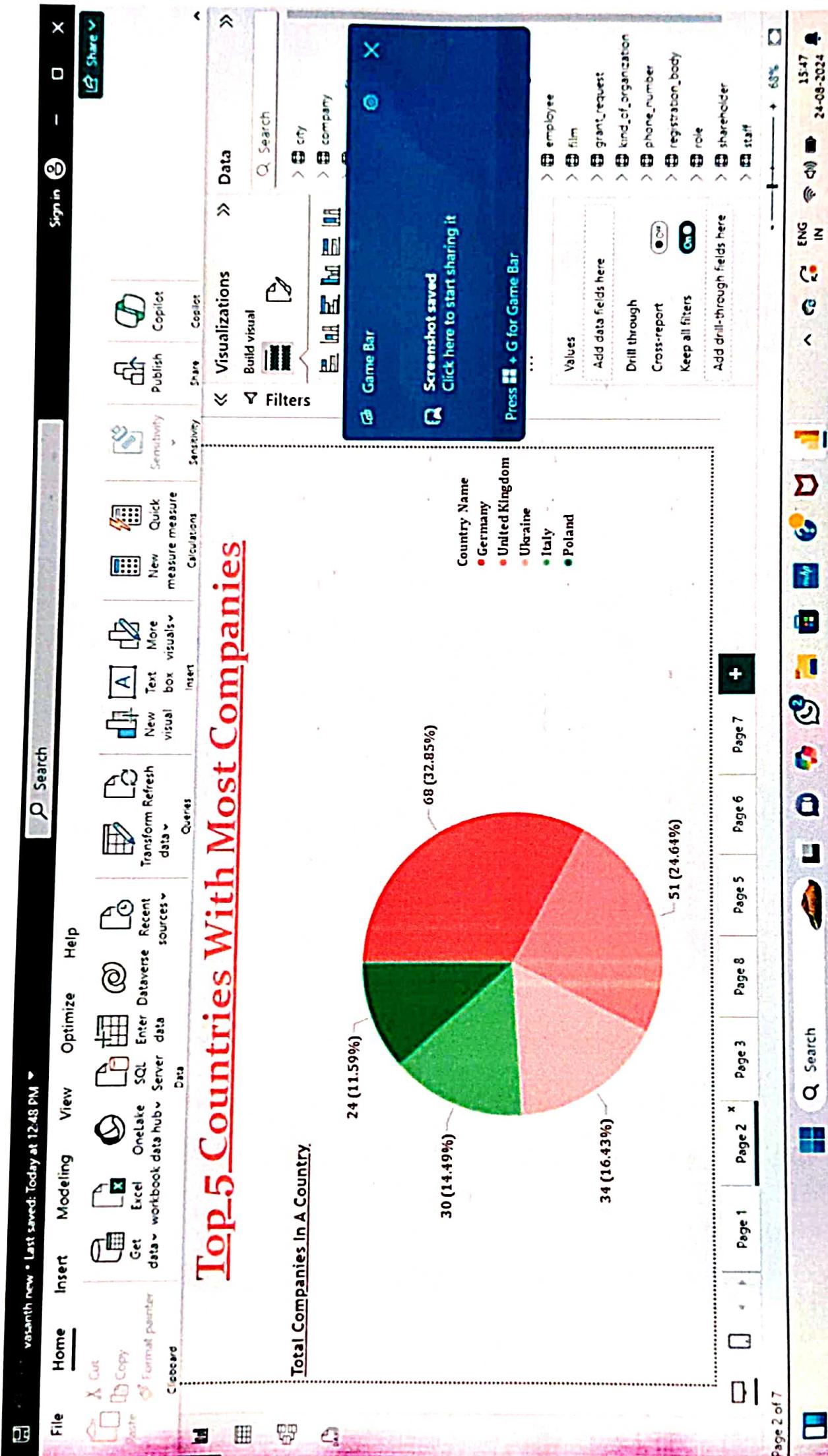


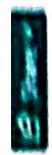
The screenshot shows a Microsoft Power BI interface. The top navigation bar includes File, Home, Insert, Modeling, View, Optimize, Help, and various icons for sharing and publishing. The ribbon menu has sections for Data, Queries, Transform Refresh, Recent sources, and Data. The main area displays a bar chart titled "Average Hourly Rate Given To Different Roles". The Y-axis is labeled "Average Hourly Rate" and ranges from 0 to 30. The X-axis lists roles: Director, Editor, Actor, and Stunt Coordinator. The bars show average hourly rates of 22.7, 23.4, 19.6, and 14.3 respectively. A legend indicates that red bars represent "Name" and blue bars represent "Director of Photography (DP)". The top right corner shows a search bar, a filters section, and a visualizations pane with various icons for charts and maps.

Role	Average Hourly Rate
Director	22.7
Editor	23.4
Actor	19.6
Stunt Coordinator	14.3

The screenshot shows a Microsoft Power BI interface with the following details:

- Top Bar:** Includes icons for Share, Sign In, and various system status indicators.
- Left Navigation:** Home, Insert, Modeling, View, Optimize, Help, and a ribbon menu with Home, Insert, Modeling, View, Optimize, Help, Data, and Queries.
- Central Area:** A bar chart titled "Count Of Grant Status By Month". The Y-axis is labeled "Count Of Grants" and ranges from 0 to 100. The X-axis is labeled "Month Name" and lists months from January to December. The bars show the count of grants for each month: Jan (35), Feb (24), Mar (26), Apr (19), May (21), Jun (29), Jul (27), Aug (26), Sep (29), Oct (20), Nov (25), Dec (31).
- Right Side:** A tooltip for "Screenshot saved" appears over the chart area. It includes a "Press F11 + G for Game Bar" instruction and a "Cross-report" icon.
- Bottom Right:** Page navigation buttons for Page 1 through Page 7.
- Bottom Left:** A search bar with the placeholder "Search" and a "File" tab selected.





File Insert Modeling View Optimize Help

New Blank Report

Close

Get Data

Close

Format painter

Close

Format painter

Close

Get data hub

Close

Recent sources

Close

Enter data

Close

Discover

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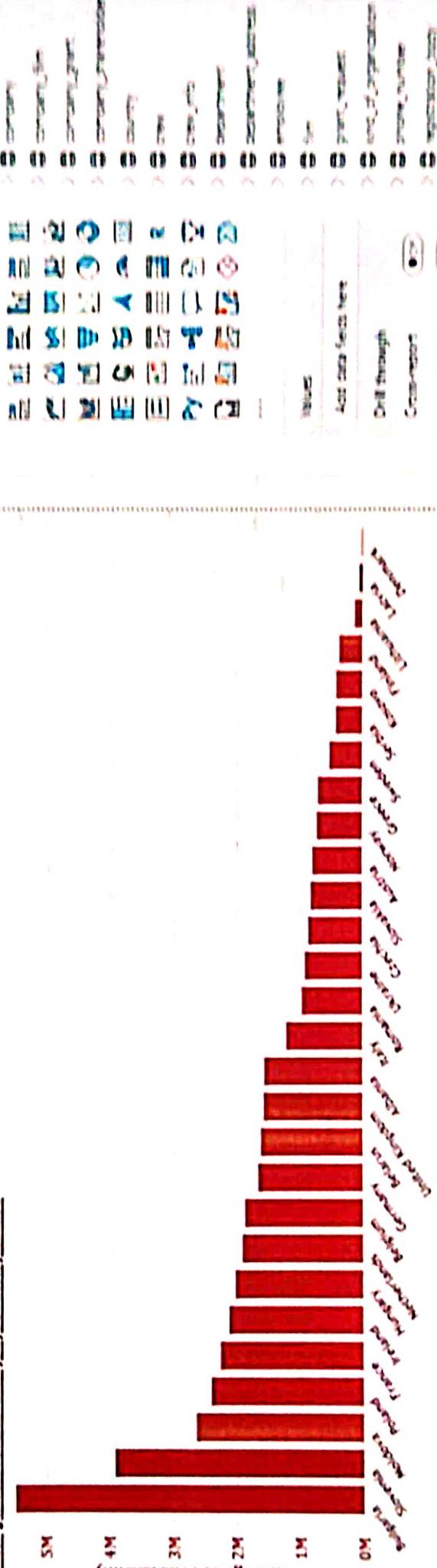
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Average liability of a country.

Average Of Total Liability By Country Name



Country Name

Page 7

Page 6

Page 5

Page 4

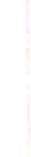
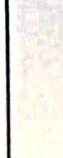
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Page 5 of 7



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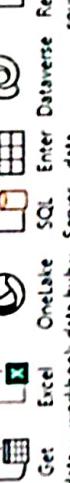
- New
- Insert
- Modeling
- View
- Optimize
- Help



Copy



Paste



Get data



Format painter



OneDrive



SQL



Excel



workbook



data hub



server



data source



Queries



Cleared



Home



Insert



Modeling



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Help



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Recent sources



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Calculation



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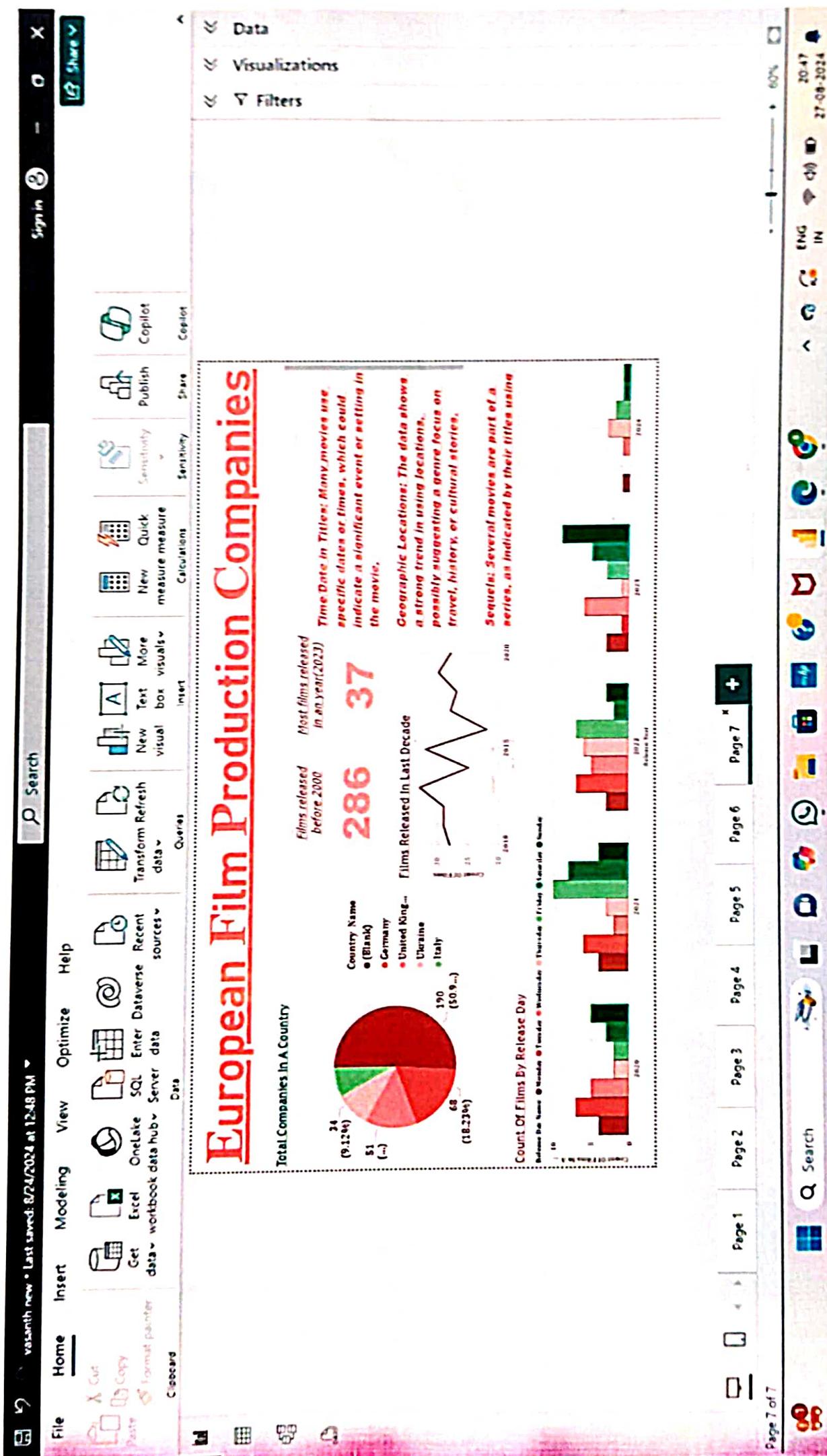
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ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1 31/7/24	Introduction of data analysis and interpreted data visualization	Analysis of the topic	
Day - 2 4/8/24	Agenda and understanding consumers	Clear view of business problem and its solution	
Day - 3 5/8/24	Types of analysis process and download of power bi	Clear analyses on DA tools and process regarding it	
Day - 4			
Day - 5			
Day - 6			

WEEKLY REPORT

WEEK-1 (From Dt. 3-9-23 to Dt. 5-7-23)

Objective of the Activity Done:

Introduction to power BI and Data Analytics

Detailed Report:

Data Analysis is the process of implementing a solution based on insights that has been generated by performing analysis on the data based on the user requirements or problems to take better decisions.

- The Data Analytics can be used in Everywhere
- Agenda of Data Analysis includes, understanding the fundamentals of power BI and Emphasizing the role of data - driven decision-making in modern businesses
- The sessions covered the basics of data analysis, different types of data are Numerical data and categorical data, the importance and types of data visualization. The data can be analyzed by using tools, methods and techniques
- We also explored power BI, understanding its interface, features, and how it integrates with other Microsoft products

power BI is a data visualization platform

The week concluded with a hands-on session on loading and transforming data in power-BI

ACTIVITY LOG FOR THE SECOND WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1 8/7/24	features and components of power bi	clear view on every component required	
Day -2 9/7/24	power bi in action and its architecture	visible insights and seeks format	
Day -3 10/7/24	power query and transformation operations	clarity about ETC tools	
Day -4 11/7/24	Tools present in power bi desktop	clear view on each and every tool present.	
Day -5 12/7/24	Analyzing the data in different types	learned about practically on data usage .	
Day -6			

WEEKLY REPORT
WEEK-2 (From Date: 8/12/23.....to Date: 12/12/23....)

Objective of the Activity Done:

Data Transforming and modeling

Detailed Report:

The Second week focused on data transformation and modeling within power BI.

• Explored different data connectors available in power BI, such as Excel SQL databases and online services

We learned how to clean, reshape and prepare data using Query Editor.

The training covered essential functions like filtering, merging and appending datasets

practiced data modeling concepts such as relationships between tables, cardinality and data hierarchies.

successfully imported datasets from multiple sources into power BI then learning about the ETL (Extract, Transform, Load) process within power BI and practiced data modeling techniques. The practical sessions helped reinforce these concepts by allowing us to create and manage data

ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1 15/7/24	Data collection and data cleaning	learned about the process of DA	
Day -2 16/7/24	Differentiated between storyboard, dashboard and report	learned the differences about contents to represent	
Day -3 18/7/24	Data structuring and its usage with power bi	learned the usage of data structure.	
Day -4 19/7/24	Revised on topics as far completed.	clear view with the usage of power bi	
Day -5			
Day -6			

WEEKLY REPORT
WEEK-3 (From Dt..15/12/2023.....to Dt.19/12/2023.....)

Objective of the Activity Done:

Data visualization Techniques

Detailed Report:

This week focused on creating effective and interactive data visualizations in Power BI.

* Studied various visualizations options available in Power BI, including various types of charts, graphs, and maps.

* Explored various types of charts, graphs, and maps that can be created in Power BI to visualize data insights.

* Participated in a hands-on session to design interactive dashboards with slicers, filters, and drill-throughs.

* The sessions included best practices for selecting the right visualizations based on the type of data and the message we want to convey.

Designed a comprehensive dashboard featuring key metrics using a mix of visuals.

Also learned about customizing visual elements, using themes and enhancing reports with interactive features.

ACTIVITY LOG FOR THE FORTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1 22/7/24	Research the additional information	Additional information about power bi	
Day -2 23/7/24	Revised about data collection and data cleaning.	Learned about starting process in DA	
Day -3 24/7/24	Revised about the data visualization	Clear view on visualization part	
Day -4 25/7/24	DAX and DAX functions	Clear view on DAX functions	
Day -5 26/7/24	All the functions present in power bi	Learned about the functions to apply	
Day -6			

WEEKLY REPORT

WEEK-4 (From Dt..2.2.17.12.4..... To Dt...2.6.17.12.4.....)

Objective of the Activity Done:

Advanced Data Analysis with DAX

Detailed Report:

This week delved into advanced analytics and Data Analysis Expressions (DAX) in Power BI. DAX is a formula expression language used in analysis services.

DAX is also functional language where full code is kept inside a functions

• Learned how to create calculated columns measures, and custom tables using DAX

* The training covered complex DAX functions such as Aggregate functions, text function, date function, logical functions, counting functions and Information functions; time intelligence, filtering used DAX to create calculated columns and measures for enhanced analysis

Explored advanced analytical techniques like trend analysis, forecasting, and what-if scenarios.

Improved the accuracy and efficiency of data model using advanced DAX.

* The week ended with exercises to build dynamic reports using DAX-driven insights.

ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1 29/7/24	Explained more factors in DAX	Learned about expressions and functions in DAX	
Day -2 30/7/24	More about filters functions in DAX	Clearview on different views	
Day -3 31/7/24	Preparation for grand assessment	prepared for test	
Day -4 1/8/24	Preparation for grand assessment.	prepared for test	
Day -5 2/8/24	Grand assessment - test	Grand the test	
Day -6			

WEEKLY REPORT
WEEK-5 (From: Dt...2.7.24... To Dt...2.8.24.....)

Objective of the Activity Done:

Real-world case study: sales

Detailed Report:

This week focus on applying Power BI skills to a real world sales analytics case study.

Received a dataset reporting sales data from a fictional company.

Defined key performance indicators (KPIs)

such as Sales growth, customer acquisition and product performance.

Built a sales dashboard to visualize the KPIs and identify trends, outliers and areas for improvement.

- * created a comprehensive sales dashboard that highlighted crucial business insights
- * used data story telling techniques to communicate findings effectively.
- * received positive feedback from mentors on the practical application of Power BI skills.

ACTIVITY LOG FOR THE SIXTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1 5/5/24	Optimising power Bi report	Clear view on Optimising	
Day -2 6/5/24	Implementation of Incremental data	Learned about DA with huge dataset .	
Day -3 7/5/24	Application in business Scales	Clear view on real-time applications.	
Day -4 8/5/24	Application of techniques to size data models	Learned about sizing data models .	
Day -5 9/5/24	learned about users information with reports	Clear view on report based data .	
Day -6			

WEEKLY REPORT

WEEK-6 (From : 5.8.23, to D... 9.8.23.....)

Objective of the Activity Done:

Power BI service and collaboration.

Detailed Report:

This week covered the power BI.

Service and its collaboration features .

- Learned how to publish reports to the power BI service, share dashboards and collaborate with team members in real-time
- The session emphasized data security, row-level security (RLS) and managing workspaces
- Also explored power BI's integration with other Microsoft tools like Excel, Teams and SharePoint, making it easier to collaborate and share insights across the organization
- The week wrapped up with overview of the upcoming project work .

SEVENTH
ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1 12/8/24	Formation of team	Clear view on team.	
Day - 2 13/8/24	Project scope and objectives	Clear view on Project assigned.	
Day - 3 14/8/24	Aggregation of public reports.	Segregation of data analysis	
Day - 4 15/8/24	Configured public refreshes	Reviewed self on dataset	
Day - 5 16/8/24	Feedback on accessibility with published report.	Clear view on outcome of reports.	
Day - 6			

WEEKLY REPORT

WEEK-7 (From Dt....12/8/24..... to Dt.....16/8/24.....)

Objective of the Activity Done: Project work - Data Analysis and Visualization

Detailed Report:

This week marked the beginning of the project phase.

- The project involved analyzing a dataset provided by Smart Internz, cleaning and transforming the data, and building a data model.
- Our team focused on identifying key metrics, trends & patterns that could drive business decisions.
- The initial reports and dashboards were created to visualize these insights, using the skills and techniques learned over the past six weeks.

EIGHTH
ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-charge Signature
Day -1 17/5/24	Presenting actionable insights	Clear view on pictorial representation	
Day -2 20/5/24	Presenting the dashboards and reports	Representing the final output.	
Day -3 21/5/24	Collaborations , file uploading	Allotting work to all members in team.	
Day -4 22/5/24	Reviewing on dashboard , report	clear view on work done in DA	
Day -5 23/5/24	Submission of project	Submitted to mentors.	
Day -6			

WEEKLY REPORT

WEEK 8 (From: 21.07.18 | 2.8.18) To Date: 23.07.18 | 24.07.18.....)

Objective of the Activity Done: Project work - Finalization, presentation.

Detailed Report:

In this week, we completed the project by refining our reports' and dashboards ensuring they met the project requirements.

We focused on enhancing the visual appeal and usability of the dashboards by adding interactive elements and ensuring the data was accurately represented.

The week culminated with a presentation to the Smart Internz team, where we showcased our findings, explained the methodologies used, and demonstrated how the insights could be applied to solve real business problems.

The project was well received, marking a successful conclusion to the internship.

CHAPTER 6: OUTCOMES DESCRIPTION

Describe the work environment you have experienced (in terms of people interactions, facilities available and maintenance, clarity of job roles, protocols, procedures, processes, discipline, time management, harmonious relationships, socialization, mutual support and teamwork, motivation, space and ventilation, etc.)

Description of work environment:

The internship at Smart Bridge has been a transformation experience, equipping me with practical skills in data analytics and a deep understanding of the role of Power BI in the industry. The hands-on experience and exposure to real-world projects has not only sharpened my technical abilities but has also honed my communication skills and project management skills. The work environment fostered a collaborative atmosphere with clear tasks, roles, well-defined protocols and structured procedures. The facilities were equipped with necessary tools for data analysis. Overall, the internship provided a comprehensive experience in data analytics within a well-organized and supportive work environment.

Describe the real time technical skills you have acquired (in terms of the job-related skills and hands on experience)

Description of the technical skills acquired.

- Data analysis: Proficiency in examining and interpreting complex datasets.
- Statistical analysis: Understanding and applying statistical methods to derive insights.
- Data visualization: Mastery in creating compelling visualization for effective communication of data.
- Analytics tools proficiency: Proficiency with web based tools like MS Excel, Power BI, Google Colab, for analytics and visualization.
- Programming language: Knowledge and expertise in Python Programming language.
- visualization generation: Skills in developing interactive dashboards, comprehensive reports, narrative stories.
- problem solving: Developing solutions to challenges encountered during data analysis.
- Data cleaning and Preprocessing: Proficiency in data cleaning and preparing data for analysis.

Describe the managerial skills you have acquired (in terms of planning, leadership, team work, behaviour, workmanship, productive use of time, weekly improvement in competencies, goal setting, decision making, performance analysis, etc.

Description of the Managerial Skills Acquired

- Project Management: Coordinating tasks, setting goals and ensuring the timely completion of the data analytics.
- Team Collaboration: Working effectively in a group setting, delegating tasks, and fostering a collaborative environment.
- Leadership Skills: Taking initiative, guiding the team, and making decisions to achieve project objectives.
- Time Management: Prioritizing tasks, meeting deadlines, and efficiently allocating resources.
- Problem Solving as a Team: Addressing challenges collectively and finding solutions through group discussion and collaboration.
- Feedback and Improvement: Providing constructive feedback to team members and actively participating in continuous improvement processes.

Describe how you could improve your communication skills (in terms of improvement in oral communication, written communication, conversational abilities, confidence levels while communicating, anxiety management, understanding others, getting understood by others, extempore speech, ability to articulate the key points, closing the conversation, maintaining niceties and protocols, greeting, thanking and appreciating others, etc.)

Description of the communication skills acquired

- Technical Communication: effectively conveying complex data analytics concepts and findings.
- Presentation Skills: creating and delivering engaging presentations to communicate insights, dashboard, visualizations and projects.
- Team Collaboration: collaborating with team members to share information, discuss project progress and updates.
- written communication: crafting clear and concise reports, documentation and emails related to data analytics processes.
- Conflict Resolution: addressing and resolving conflicts within the team to maintain a positive and productive environment between team members.

Describe how could you could enhance your abilities in group discussions, participation in teams, contribution as a team member, leading a team/activity.

Reflecting on my experience in data analytics at Smart-bridge interns. I've identified key areas for enhancing my abilities in group discussions, team participation and leadership.

To improve my contributions in group discussions, I am to actively listen to others, ask insightful questions and share my opinions, perspectives clearly and effectively. As a team member, I plan to strengthen collaboration by proactively offering support, leveraging my technical skills and embracing different viewpoints of team members. Lastly to enhance my leadership capabilities I plan to focus on taking initiative, creating a positive team environment, and effectively coordinating team activities through these measures, I am committed to continuous growth and excellence in my role within the team.

Describe the technological developments you have observed and relevant to the subject area of training (focus on digital technologies relevant to your job role)

Description of the digital technologies.

- Power BI: Power BI (Business Intelligence) tool is used for managing and analysing data. It integrates reporting, modeling analysis, dashboards, stories and events and event management to effectively organise data for effective decision making.
- Python: Python is a high-level, interpreted, interactive and object-oriented scripting language. It is used for server-side web development.
- Visual Studio Code: Visual Studio Code aka vs code is a source-code editor software developed by Microsoft for Windows, and Mac OS.
- Get Bootstrap: Get Bootstrap, is a free, open-source front-end development framework for the creation of websites and web applications. It also enables designers and developers for mobile-first applications.