



SHORT-TERM INTERNSHIP



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Acknowledgements

This Power BI presentation on topic "GLOBAL INFLATION DATA". we acknowledge the Power BI community for their valuable resources and tutorials that added in our project development. I would like to express my profound appreciation to the International Monetary Fund (IMF) and the World Bank for providing the comprehensive data sets on annual average global inflation, which were integral to this study. My gratitude also extends to the Organisation for Economic Co-operation and Development (OECD) for their detailed inflation reports and their analysis on global economic trends. Special thanks to my colleagues and academic advisors for their invaluable feedback and support throughout the research process. Lastly, I appreciate the contributions of the peer reviewers.

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CHAPTER I : EXECUTIVE SUMMARY

Description of the sector of business and
Inton organization :- Smart bridge operates in
the data analytics sector, Providing Innovative
solutions foenhance the bussness intelligence. The
organization lives ages. Power ③ to enPower.
clients with actionable mBg?ts, creating data-driven
decesion - making.

Learning objectives and outcomes :-

- Data cleaning
- Data Preprocessing and manipulation
- Statistical analysis.

summary of Internship Activities :-

- Attending live training sessions and Project
mentoring sessions.
- selection of topic - "Student Performance Analysis?"
and gathering, cleaning and analysing related
data sets in excel.
- Team formation and assignment of tasks to team
members.
- Designing and developing dashboard and report.
- Drafting Project video demonstration and Preparation
ation of final reports.

CHAPTER 2 : OVERVIEW OF THE ORGANIZATION

Smart Bridge is a platform that offers virtual Internship to the students. The platform's goal is to prepare students for the job market by establishing a cooperative relationship between industry and academia. Smart Bridge partners with companies with such as goal to offer virtual internship. The internships provide students with hand-on experience with the latest technologies, and enables Project-based learning. Smart Bridges flagship event is the Summer Internship Program. The program develops students skills in emerging technologies i.e,

- Artificial Intelligence
- machine learning
- Internet of things.

Organization objective :- Smart Bridge's main objective is to bridge the existing gaps between prevailing Industry standards and what the academics offer to the graduates which passing out of university. Smart Bridge's offers suitable

skill development and 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. we thereby work along the line to offer best programs that helps the students to gain practical knowledge and hands on training to learn skills of the future.

Therefore the main objectives of smart bridge is providing internship for every student, promote industry approved professional electives, and become a talent factories of India by 2026.

CHAPTER 3 : INTERNSHIP PART

Description of the activities / responsibilities undertaken :-

- Registering with ADSCHE Smart Internz and enrolling for Smart Bridge's data analytics course i.e., live training sessions as per the pre-scheduled training calendar.
- Participating weekly quiz and completing weekly assignments with respect to data analytics.
- Team formation and selection of Project topic "GLOBAL INFLATION DATA".
- Gathering, cleaning and analyzing the excel data sets of the project.
- Attending Project-mentoring sessions and designing and developing interactive dashboard story, Report
- web integration of above Project deliverables with team's web page using visual studio code, drafting a Project video demonstration and preparation of final report.
- Submission of team Project via uploading the Project files in GitHub repository of the team

CHAPTER 4: 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.)

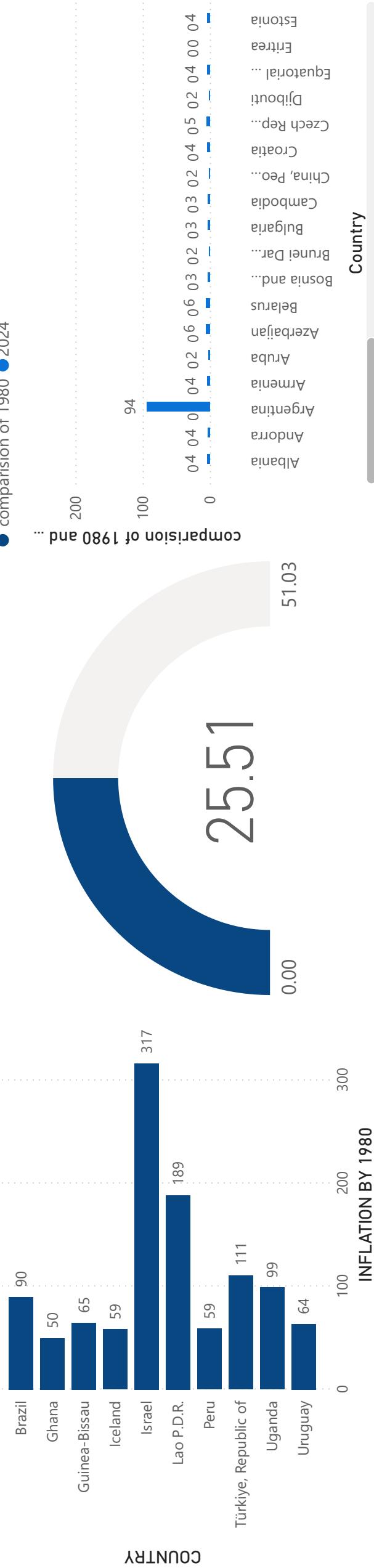
I don't have personal experiences, but I can describe the work environments that people typically encounter. Many workplaces vary widely, from open-plan offices designed to encourage collaboration, to quiet, individual workspaces ideal for focused tasks.

Some environments are dynamic and fast-paced, while others are more structured and predictable. Factors like company culture, team dynamics, and physical space all contribute to the overall work atmosphere. The facilities were equipped with necessary tools for data analysis. Team members exhibited mutual support and teamwork, contributing to a harmonious relationship. Overall, the internship provided a comprehensive experience in data analysis within a well-organized and supportive work environment.



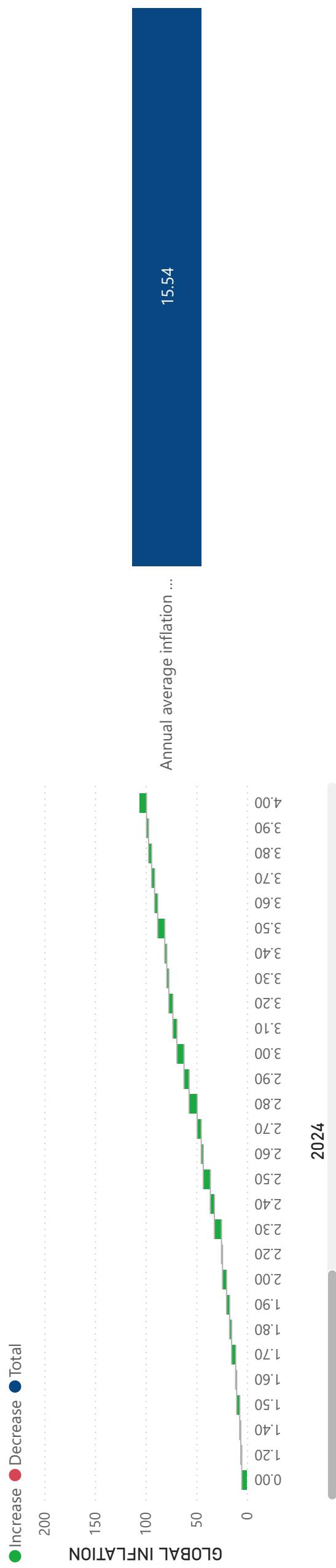
GLOBAL INFLATION ANALYSIS (1980-2024)

INFLATION BY 1980 by COUNTRY



ANNUAL AVERAGE by 1980

GLOBAL INFLATION by 2024



GLOBAL INFLATION ANALYSIS REPORT

25.51

Average of 1980

197

Number Of Countries

76

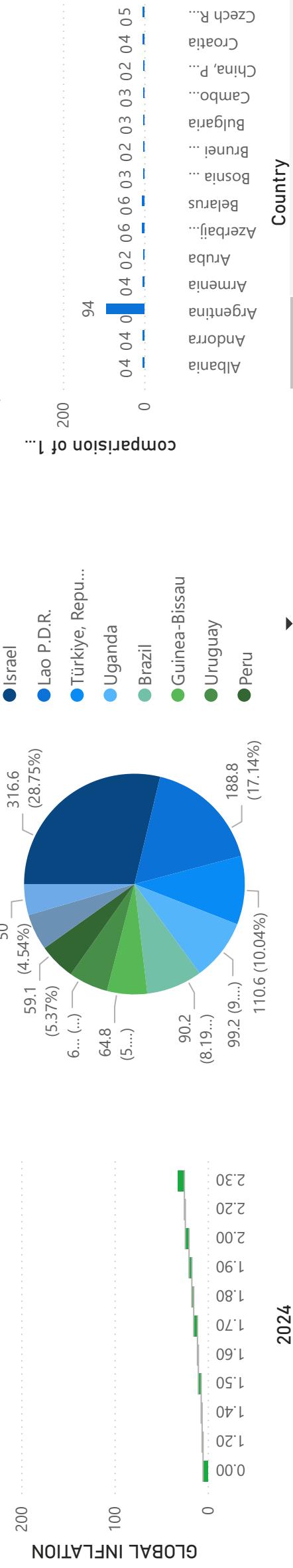
Mean value between 1980 and 2024

3.80K

Total of 2024

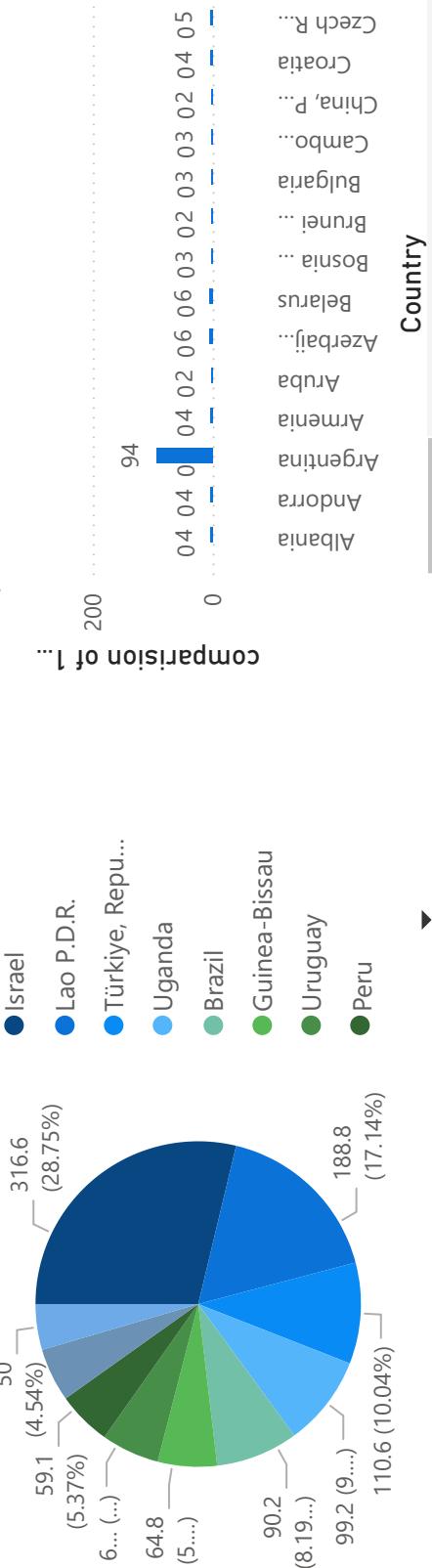
GLOBAL INFLATION by 2024

● Increase ● Decrease ● Total



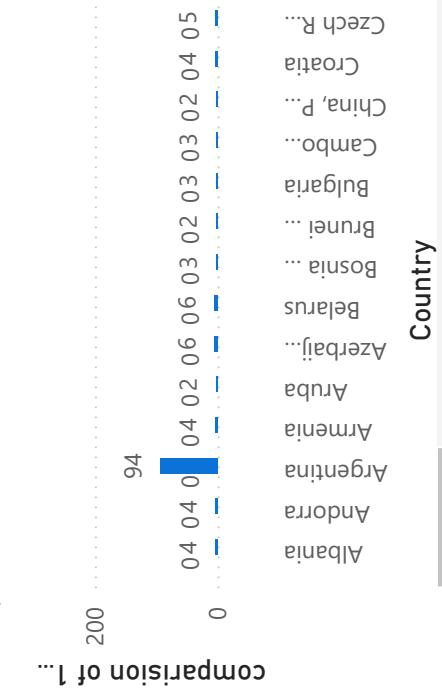
Highest Average Inflation in 1980 by COUNTRY

COUNTRY



comparision of 1980 and 2024 by Country

● comparision of 1980 ● 2024



Report: Understanding global economic dynamics, specifically the trends in inflation rates, is paramount for policymakers, economists, and researchers. This dataset, covering the years **1980 to 2024**, offers a comprehensive perspective on inflation across various countries. The primary focus is on dissecting the data based on **country-specific indicators**, **providing valuable insights** into the multifaceted factors influencing economic environments on a global scale.

Global inflation was relatively stable, typically between 3-5% per year, with a sharp **increase in 2008** due to the Great Recession. The current inflation crisis began in 2021, with the **International Monetary Fund (IMF)** projecting a decline in global inflation from 6.8% in 2023 to 5.9% in 2024 and 4.5% in 2025. The IMF also projects that advanced economies will return to their inflation targets before emerging market and developing economies.

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-charge Signature
monday Day - 1 08-7-24	introduction of data Analytics	Analysis of the topic	
TUESDAY Day - 2 09-7-24	introduction of data Analytics	Analysis of the topic	
wednesday Day - 3 05-7-24	Agenda and understanding customers	clear view of business Problem and solutions	
thursday Day - 4 05-7-24	analysis and implementing data	Putting the data in visual form	
friday Day - 5 05-7-24	data Analytics application	where it is used learned about different tools and insights	
saturday Day - 6 06-7-24	reseached the additional information online	additional information about DA	

WEEKLY REPORT

WEEK - 1 (From Dt 8-7-24 to Dt 15-7-24)

Objective of the Activity Done: what is data Analytics?

Detailed Report:

and the Process involved in data Analytics in the first week learned about the definition, agenda and steps to understand about data Analytics. Also discussed about the problems and solutions to the data and analysed the data based on steps as:

- comparing the data
- Putting the data is visual
- breaking the data

also understand the concepts of tools in data Analytics, which helps to store the data in efficient and secure manner

- SQL (structured query language)
- NoSQL

DA technologies like.

- data management • data visualization
- Predictive model

we also learned about where this data Analytics is used & applied in various industries like finance, retail handing, agriculture and companies like when use DA for growth

ACTIVITY LOG FOR THE SECOND WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
monday Day - 1 08-7-24	Data Analytics application	Learned about different tools and insights	
Tuesday Day - 2 09-7-24	Data Analytics application	where it is used in diff sec	
wednesday Day - 3 10-7-24	data Analytics Process and steps is DA	Learned about data cleaning and Processing	
thursday Day - 4 11-7-24	data Analytics Process and steps is DA	Learned about data cleaning and Processing.	
friday Day - 5 12-7-24	types of data Analytics	different types in DA in clear way.	
Saturday Day - 6 13-7-24	Revision on given topics	Revised about DA	

WEEKLY REPORT

WEEK - 2 (From Dt. 18-7-24 to Dt 24-7-24)

Objective of the Activity Done:

data analytics Process and structure

Detailed Report: In the second week learned about the different Process that is required in data analytics data clearing and Processing the data in a detailed manner and also the types of DA into 4 categories like

- descriptive Analytics
- diagnostic Analytics
- Predictive Analytics
- prescriptive Analytics

also learned about the challenges faced in the organization with the solutions, with Power BI in Action which gives visible insights and sales force for Action which tells us about the architecture of the BI which mainly teaches about DWH that is data warehouse and data bases - collect - integrate - store - Analyse - distribute and start with ETL tools.

ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
monday Day - 1 15-7-24	business Problems and the solutions (Proutise)	challenges faced in organization	
Tuesday Day - 2 16-7-24	business Problems and the solutions (Proutise)	challenges faced in organization	
wednesday Day - 3 18-7-24	Power BI in Action	visible insights & sales for cost	
thursday Day - 4 18-7-24	BI Architecture	learned about structure	
friday Day - 5 19-7-24	BI Architecture	learned about structure	
Saturday Day - 6 20-7-24	Revision on given topics	Revised about DA	{}

WEEKLY REPORT

WEEK - 3 (From Dt ~~15-7-24~~ to Dt ~~19-7-24~~)

Objective of the Activity Done

data insights and flow of Power BI

Detailed Report: In the third week learned about the insights of data flow in Power BI which viewed the model and data merges and tables in columns and rows with joint kind

- left outer (all from first, matching from second)
- right outer (from first to second)
- full outer (all rows from both)
- inner (only matching rows)
- left Anti (rows only in first)
- right Anti (rows only in second)

also learned about ETL tools in Power Query that is Extract transform load (ETL) which helps in extracting the data view and the model view for data modelling to generate reports and insights. also learned about the overhead, bottleneck in the process of analysis in BI. researched about tableau as an ETC tool

ACTIVITY LOG FOR THE FORTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
monday Day - 1 22-7-24	data to insights flow in Power BI	learned about data and model view	
tuesday Day - 2 23-7-24	tables and merges	learned about the kinds in merge	
wednesday Day - 3 24-7-24	tables and merges	learned about the kinds in merge	
thursday Day - 4 25-7-24	ETL tools in Power Query	whilize Power BI data flows	
friday Day - 5 26-7-24	ETL tools in Power Query	whilize Power BI data flows.	
saturday Day - 6 27-7-24	researched the additional information online	additional information about BI	

WEEKLY REPORT

WEEK - 4 (From Dt. ~~29/7/24~~ to ~~26/8/24~~)

Objective of the Activity Done

Data Analytics expression (DAX)

Detailed Report:

In the four week learned about the concept of DAX (Data Analytics expression) and filters in DAX.

different data functions:

- Aggregate function → is blank, is number, is text
- text function → lower, upper, sum, ...
- date function → date, date add, datediff
- counting function → and, or, not, if
- information function → cocent, distinct count

In the end of fourth week revised all the topics that were taught from the first day of the internship programme which helped me to attend the grand assessment test. After preparing for the assessment test we gave assessment test on all the topics we learned.

ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1 29/07/24	data sources dash boards and insights	learned how these are used in BI	
Day - 2 30/07/24	data collection and data cleaning	Learned about the process in DA	
Day - 3 31/07/24	data Collection and data \ cleaning	Learned about the process in DA	
Day - 4 01/08/24	data Analytics Expressions (DAX)	Learned about the Expressions and functions	
Day - 5 02/08/24	data Analytics Expressions (DAX)	Learned about the Expressions about functions	
Day - 6 03/08/24	discussion Regarding project	discussed about project	

WEEKLY REPORT

WEEK - 5 (From Dt. 29/7/24 to Dt. 2/8/24)

Objective of the Activity Done: Power BI Service and collaboration.

Detailed Report: The fifth week covered the Power BI service and its collaboration features. We learned how to publish reports to the Power BI service, share dashboards, and collaborate with team members in real-time. The sessions emphasized data security, row-level security (RLS) and managing workspaces. We 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.

ACTIVITY LOG FOR THE SIXTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1 05/08/24	filter functions in Dax	different filters in Dax	
Day - 2 05/08/24	filter function in Dax	different filters in Dax	
Day - 3 06/08/24	preparation for grand assessment test	preparation for assessment test	
Day - 4 06/08/24	preparation for grand assessment test	preparation for assessment test	
Day - 5 07/08/24	grand assessment test	Given the grand assessment test	
Day - 6 09/08/24	Researched the additional information online	additional information about BJ	

WEEKLY REPORT

WEEK - 6 (From Dt. 5/8/24 to Dt. 9/8/24)

Objective of the Activity Done:

Best Practices and Industry Applications

Detailed Report:

In the final week of internship classes, we focused on best practices in data analytics and real-world applications of Power BI across various industries. We discussed key strategies for optimizing data models, enhancing report performance and maintaining data governance. The sessions also included case studies showcasing how companies use Power BI for business intelligence, sales analysis, financial reporting, and operational efficiency. The week wrapped up with an overview of the upcoming project work.

ACTIVITY LOG FOR THE SEVENTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1 12/08/24	Formation of team	clear view on team	
Day - 2 13/08/24	Project scope and objectives	clear view on Project assigned	
Day - 3 14/08/24	Aggregation of public reports	Aggregation of data analysis	
Day - 4 15/08/24	Configured Public refreshes	Reviewed self on dataset	
Day - 5 16/08/24	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 visualizations

Detailed Report:

This week marked the beginning of the Project phase.

- Started by defining the Project scope, objectives and deliverables.
- The Project involved analyzing a data set provided by Smart Intentz, cleaning and transforming the data, and building a data model.
- Our team focused on identifying key metrics, trends and 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.

ACTIVITY LOG FOR THE EIGHTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1 19/08/24	Presenting actionable insights.	clear view on digital representation	
Day - 2 20/08/24	Presenting the dashboard and reports	Representing the final output	
Day - 3 21/08/24	collaborations, file uploading	Allotting work to all members in team.	
Day - 4 22/08/24	Reviewing on dashboard, report	clearview on work done in DA	
Day - 5 23/08/24	Submission of Project	submitted to mentors.	
Day - 6			

WEEKLY REPORT

WEEK-8 (From Dt. 19/8/24..... to Dt. 23/8/24.....)

Objective of the Activity Done: Project work - finalization and 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.

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

As an AI, I don't have personal experiences, but I can describe the types of real-time technical skills that are relevant to my function:

1. Natural Language Processing (NLP): I can understand and generate human language, interpret context, and provide coherent responses in real time.
2. machine learning :- I use machine learning algorithms to process and analyze vast amounts of text data, learning from patterns to improve responses.
3. Data Analytics : I can quickly sift through large volumes of text data to find relevant information and provide answers.
4. contextual understanding :- I can maintain context through my training data to provide accurate information & general appropriate content.

5. Information Retrieval: I can efficiently over a conversation, allowing for meaningful and relevant exchanges

These skills enable me to interact effectively and provide useful response in great time.

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

I don't have personal experiences, but I can share some key managerial skills that are often valued:

1. Leadership : inspiring and guiding a team towards achieving goals.
2. Communication : clearly conveying ideas and listening to others.
3. Decision-making : analyzing situations and making informed choices.
4. Problem-solving : identifying issues and implementing effective solutions.
5. Time management : prioritizing tasks and managing time efficiently.
6. Conflict resolution : addressing and resolving disputes effectively.
7. Delegation : assigning tasks appropriately to team members.

Strategic Planning :- setting long-term goals and creating actionable plans.

These skills help in managing teams and projects effectively.

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.)

① Oral communication :

* Improvement Approach : Practice explaining global inflation data in simple terms, avoiding jargon when possible.

② Written communication :

(*) Improvement Approach : Enhance active listening skills by focusing on understanding others' perspectives and concerns about inflation.

③ Conversational Abilities :

(*) Improvement Approach : Improve the flow of conversation by staying updated on the latest global inflation trends and their implications.

④ Confidence level :

(*) Improvement Approach : Build confidence by deepening my understanding of global inflation data and its causes.

⑤ Anxiety management :

(*) Improvement Approach : Manage anxiety by preparing key talking points ahead Page No. discussions on global inflation.

⑥ understanding others :-

Improvement Approach : cultivate empathy by preparing key talking points global inflation from other's perspectives, whether they are economists, business owners, or consumers.

⑦ getting understood by others :-

Improvement Approach : simplify complex data by using analogies, visuals, or relatable examples.

⑧ Extempore speech :-

Improvement Approach : Sim Practice prompts speaking by regularly summarizing recent inflation reports & data trends without preparation.

⑨ Articulation of key Points :-

Improvement Approach : focus on identifying and clearly stating the most critical aspects of global inflation.

⑩ closing the conversation :-

Improvement Approach : learn to wrap up discussions effectively by recapping the main points and suggesting further reading & follow-up discussions.

⑪ Maintaining Niceties and Protocols:

Improvement Approach: Practice using polite language and respecting conversational etiquette, such as allowing others to speak and acknowledging their contributions. This fosters a respectful and productive dialogue.

⑫ Greeting, thanking, and appreciating others:

Improvement Approach: Develop the habit of starting and ending conversations with appropriate greetings and expressions of gratitude. Acknowledging others' input and thanking them for their time in the communication environment.

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

Enhancing abilities in group discussions, team participation and leadership involves developing a range of skills:

1. Active Listening: focus on understanding other's view point and respond thoughtfully. Avoid interrupting and ask clarifying questions if needed
2. Effective Communication: clearly articulate your ideas and provide constructive feedback, use appropriate language and ensure your message is understood.
3. Empathy and Respect: show empathy by acknowledging team members feelings and perspectives, respect differing opinions and work towards a consensus.
4. Collaboration: contribute your skills and knowledge while valuing others contributions. Be open to team work and share responsibilities.

5. Problem solving : Address conflicts and challenges with a solution-oriented mindset. Encourage brainstorming and evaluate options collectively.
6. Organization : Keep discussion focused and on track. Help set clear objectives and deadlines to guide the team's efforts.
7. Delegation : As a leader, delegate tasks based on team members' strength and capabilities. Provide guidance and support to ensure tasks are completed effectively.
8. Feedback and improvement : Seek feedback on your performance and actively work on areas of improvement. Encourage a culture of continuous learning 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)

As of late, I don't know much about the field of training and education. Several technological advancements have significantly impacted how learning is delivered and experienced:

1. Artificial intelligence and machine learning: AI-driven platforms can now offer personalized learning experiences by adapting and adjusting contents based on learner performance. Tools like chatbots and virtual tutors can provide real-time assistance and feedback.
2. Virtual and augmented reality: VR and AR technologies create immersive learning environments that simulate real-world scenarios, enhancing practical training in fields like medicine, engineering, and the arts.
3. Learning management system (LMS): modern LMS platforms, such as moodle, Blackboard, and canvas, have evolved to offer integrated tools for content delivery, assessment, and analytics, making it easier to track progress and engagement.

Programs and tailor instruction

4. online and blended learning : the use of mOOCs (massive open online courses) and platforms like Coursera and udemy has expanded access to education, allowing learners to engage in self-paced and blended learning models that combine online and in-person elements.
5. Data Analytics and Learning Analytics : These technologies enable educators to analyze learner data to improve course design, predict student success, and identify areas needing intervention.
6. mobile learning (m learning) : with the proliferation of smart phones and tablets, mobile learning applications provide flexible, on-the-go access to educational resources and training programs.
These advancements collectively enhance the effectiveness, accessibility and personalization of training and education.