

Model Program Book



SHORT TERM INTERNSHIP (On-Site/Virtual)

Designed & Developed by



**ANDHRA PRADESH
STATE COUNCIL OF HIGHER EDUCATION**
(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)

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Acknowledgement

I would sincerely like to thank APSCHE for providing me with this short - term immersion internship which helped me gain practical experience and knowledge on Data Analytics with powerBI

I thank our respected Principal Sir Dr. G.S.K chakravarthy for giving me this wonderful Opportunity

I would also like to thank our Head of the Department Mr. N.K Mahesh , Department of BBA, and our guide Mr. Dr. Sunil Kumar. for being a wonderful mentor throughout my project.

I thank Almighty God , my parents and my friends without whose help this project would not have been completed .

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CHAPTER 1: EXECUTIVE SUMMARY

The internship report shall have only a one-page executive summary. It shall include five or more Learning Objectives and Outcomes achieved, a brief description of the sector of business and intern organization and summary of all the activities done by the intern during the period.

- Description of the Sector of Business or Intern Organization.

During my internship at SmartBridge, focusing on Data Analytics with power BI, the primary goal of this internship were to enhance my analytic skills and understand the application of data analytics in real world business scenarios.

- Learning Objectives and Outcomes.

 - proficiency in power BI — Data analysis techniques

 - Business sector understanding — project management

 - Communication skills.

- Summary of Internship Activities

 - Attending live training sessions and project mentoring sessions.

 - selection the topic "Evaluating Investment Opportunities Analyzing Tata Power stock trends with power BI".

 - Team formation and Assignment of tasks to team members

 - Designing & Development Interactive Dashboards, Reports.

 - Drafting project video Demonstration and Final report.

CHAPTER 2: OVERVIEW OF THE ORGANIZATION

Suggestive contents

- A. Introduction of the Organization
- B. Vision, Mission, and Values of the Organization
- C. Policy of the Organization, in relation to the intern role
- D. Organizational Structure
- E. Roles and responsibilities of the employees in which the intern is placed.
- F. Performance of the Organization in terms of turnover, profits, market reach and market value.
- G. Future Plans of the Organization.

Smart Bridge is a platform that offers virtual internships to the students. The platform goal 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 experience with the latest technology, 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 gaps between prevailing industry

Standards and what the academic offer to graduate while passing out of University. Smart Bridge offers suitable skill development (OER) training to young talent before boarding the first job. Their skill development programmes are designed considering the present in demand skills in the industry. We thereby work along the line to offer Best programme 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 students promote industry Appraised professional electives, and become a talent factory of India by 2026.

CHAPTER 3: INTERNSHIP PART

Description of the Activities/Responsibilities in the Intern Organization during Internship, which shall include - details of working conditions, weekly work schedule, equipment used, and tasks performed. This part could end by reflecting on what kind of skills the intern acquired.

- Description of the Activities / Responsibilities Undertaken.
 - Registering with APSCHE Smart Intern and enrolling for SmartBridge's Data Analytics with power BI course i.e., training Session or per the pre-scheduled calendar.
 - participating weekly quiz & completing weekly Assignments with respect to data analytics
 - team formation & selection of project topic "Evaluating Investment Opportunities : Analyzing Tata power stock trends with power BI".
 - Gathering, cleaning & Analyzing the Excel data set of the project topic - "Evaluating Investment Opportunities"
 - Attending project - mentoring sessions and designing and developing interactive dashboard, story report on the project topic using power BI
 - Drafting a project video demonstration and preparation of final report
 - Submission of team project via uploading the project file in GITHUB Repository of the team.



EVALUATING INVESTMENT OPPORTUNITIES

ANALYZING TATA POWER STOCK TRENDS WITH POWER BI



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kaggle

Search

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Datasets

Models

Code

Discussions

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More

Your Work

Tata_power_Dataset

Political Social Med.

Tata_power_Dataset

For Stock Price Analysis

Data Card | Code (0) | Discussion (0) | Suggestions (0)

About Dataset

Dataset has complete 1 year Tata-Power data between 08 Jul 21 - 07 Jul 22

TATA POWER

Usability: 3.53

License: Unlicense

Expected update frequency: Not specified

Tags: Financial, Data Analytics

Date	Open	High	Low	Close	Avg
2021-07-06	124.000000	124.000000	123.850000	122.480000	122
2021-07-07	123.000000	124.000000	122.100000	123.480000	123
2021-07-08	124.050000	124.540000	122.400000	123.400000	123
2021-07-09	123.000000	124.000000	121.800000	122.400000	122
2021-07-10	123.000000	125.000000	122.400000	125.000000	125
2021-07-11	122.199997	125.200000	122.000000	124.500000	123
2021-07-12	122.000000	124.000000	121.999997	123.500000	122
2021-07-13	123.000000	125.000000	122.000000	124.500000	124
2021-07-14	122.000000	124.000000	121.999997	123.500000	122
2021-07-15	123.000000	125.000000	124.100000	124.400000	124
2021-07-16	123.000000	125.400000	122.600000	124.100000	123
2021-07-17	123.000000	125.000000	124.100000	124.400000	124
2021-07-18	123.000000	125.400000	124.000000	124.500000	124
2021-07-19	123.000000	125.449997	124.000000	124.500000	124
2021-07-20	123.000000	125.540000	124.399997	124.400000	124

DATA COLLECTION

Downloading the data set by using the below link

<https://www.kaggle.com/datasets/tejasrangle/tata-power-dataset>



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DATA EXTRACTION FROM DATABASE

Date	Sum of Open	Sum of Close	Sum of High	Sum of Low	Sum of Adj Close	Sum of Volume
06 July 2021	126.00	123.00	126.50	122.05	122.02	31062811
07 July 2021	123.00	123.85	124.50	122.15	122.87	19773453
08 July 2021	124.10	123.40	126.85	122.40	122.42	33870196
09 July 2021	123.00	124.45	124.80	121.70	123.46	24078290
12 July 2021	126.00	123.80	126.30	123.45	122.82	26731429
13 July 2021	124.20	124.05	125.25	122.95	123.07	19316578
14 July 2021	125.00	124.55	126.00	124.10	123.56	23276074
15 July 2021	124.85	124.45	126.50	124.15	123.46	22522585
16 July 2021	125.40	124.15	125.40	123.65	123.16	13479996
19 July 2021	126.25	125.80	128.45	124.60	124.80	65614163
20 July 2021	125.65	121.80	126.35	121.20	120.83	48822351
22 July 2021	123.40	123.70	124.20	122.40	122.72	20890960
23 July 2021	124.90	122.90	125.45	122.60	121.92	18344408
26 July 2021	123.00	122.60	123.75	122.10	121.63	14838935
27 July 2021	122.80	121.15	123.75	120.20	120.19	16292819
28 July 2021	121.45	120.35	121.85	118.40	119.39	19451371
29 July 2021	120.75	122.75	124.00	120.70	121.78	16366211
30 July 2021	122.60	125.00	126.65	122.30	124.01	30163350
02 August 2021	126.55	133.45	134.00	125.55	132.39	102355625
03 August 2021	134.40	132.60	135.50	132.20	131.55	50457587
Total	51,581.10	51,484.55	52,510.75	50,525.25	51,102.12	10536122646

UNDERSTAND THE DATA

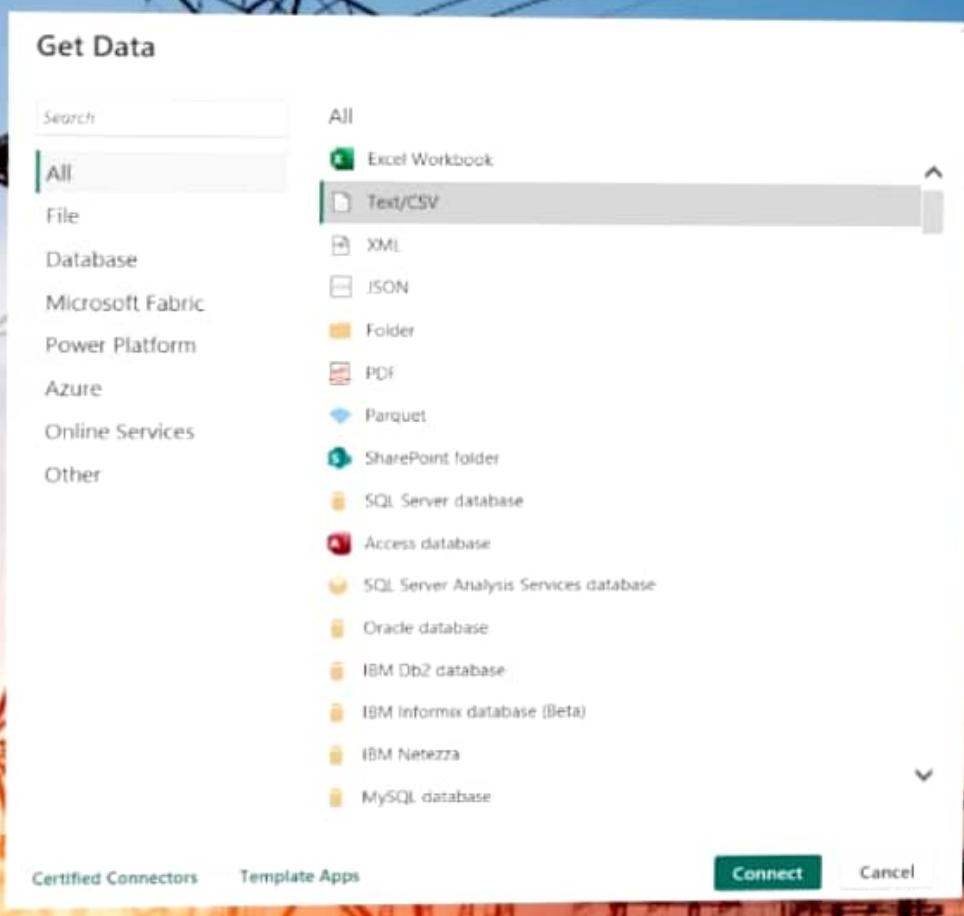
Data contains all the meta information regarding the columns described in the CSV files

Column Description of the Dataset:

- DATE :** Dataset has complete 1 year Tata-Power data between (6 July 21 - 6 July 22).
- OPEN:** one year of open stock trend of tata power
- HIGH:** one year of high stock trend of tata power
- LOW:** one year of low stock trend of tata power
- CLOSE:** one year of close stock trend of tata power
- VOLUME:** one year of volume stock trend of tata power



: DATA PREPARATION : Prepare The Data For Visualization



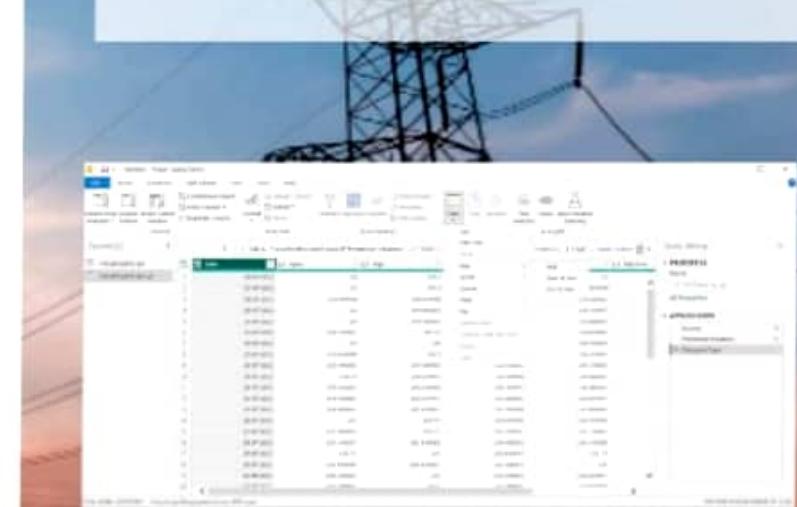
DATA LOADING

Data loading in Power BI involves importing data from various sources to create interactive reports and dashboards. Users can connect to a wide range of data sources, including databases, Excel files, cloud services, and more.

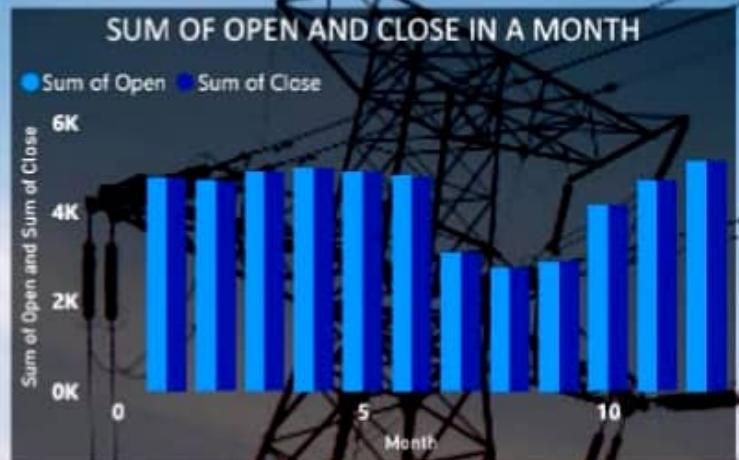
Year	Quarter	Month	Day	Sum of Open	Sum of Close	Sum of High	Sum of Low	Sum of Adj Close	Sum of Volume
2021	Qtr 3	July	6	126.00	123.00	126.50	122.05	122.02	31062811
2021	Qtr 3	July	7	123.00	123.85	124.50	122.15	122.87	19773453
2021	Qtr 3	July	8	124.10	123.40	126.85	122.40	122.42	33870196
2021	Qtr 3	July	9	123.00	124.45	124.80	121.70	123.46	24078290
2021	Qtr 3	July	12	126.00	123.80	126.30	123.45	122.82	26731429
2021	Qtr 3	July	13	124.20	124.05	125.25	122.95	123.07	19316578
2021	Qtr 3	July	14	125.00	124.55	126.00	124.10	123.56	23276074
2021	Qtr 3	July	15	124.85	124.45	126.50	124.15	123.46	22522585
2021	Qtr 3	July	16	125.40	124.15	125.40	123.65	123.16	13479996
2021	Qtr 3	July	19	126.25	125.80	128.45	124.60	124.80	65614163
2021	Qtr 3	July	20	125.65	121.80	126.35	121.20	120.83	48822351
2021	Qtr 3	July	22	123.40	123.70	124.20	122.40	122.72	20890960
2021	Qtr 3	July	23	124.90	122.90	125.45	122.60	121.92	18344408
2021	Qtr 3	July	26	123.00	122.60	123.75	122.10	121.63	14838935
2021	Qtr 3	July	27	122.80	121.15	123.75	120.20	120.19	16292819
2021	Qtr 3	July	28	121.45	120.35	121.85	118.40	119.39	19451371
2021	Qtr 3	July	29	120.75	122.75	124.00	120.70	121.78	16366211
2021	Qtr 3	July	30	122.60	125.00	126.65	122.30	124.01	30163350
2021	Qtr 3	August	2	126.55	133.45	134.00	125.55	132.39	102355625
2021	Qtr 3	August	3	134.40	132.60	135.50	132.20	131.55	50457587
2021	Qtr 3	August	4	133.00	131.65	134.65	130.10	130.60	33758053
2021	Qtr 3	August	5	132.15	134.55	135.40	129.60	133.48	39952286
2021	Qtr 3	August	6	135.25	135.15	136.80	134.30	134.08	47743493
2021	Qtr 3	August	9	137.00	132.05	137.00	130.30	131.00	66874756
2021	Qtr 3	August	10	132.45	130.05	133.75	127.05	129.02	31526384
2021	Qtr 3	August	11	130.30	129.60	131.65	126.50	128.57	32222624
2021	Qtr 3	August	12	130.25	133.65	134.20	129.85	132.59	31898731
2021	Qtr 3	August	13	134.35	132.55	134.50	132.00	131.50	23715152
Total				51,581.10	51,484.55	52,510.75	50,525.25	51,102.12	10536122646

DATA CLEANING

Data cleaning in Power BI is a crucial step to ensure the accuracy and reliability of your analysis. It involves identifying and correcting errors, inconsistencies, and incomplete data within your datasets. Power BI's Power Query Editor provides a range of tools to remove duplicates, handle missing values, and standardize data formats.

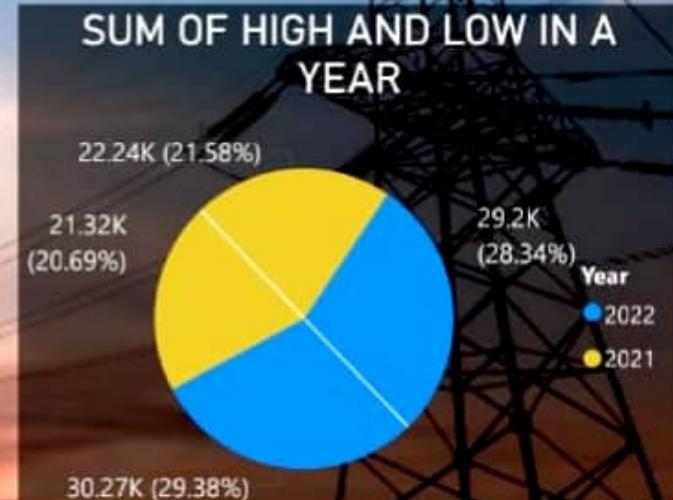


DATA VISUALIZATION

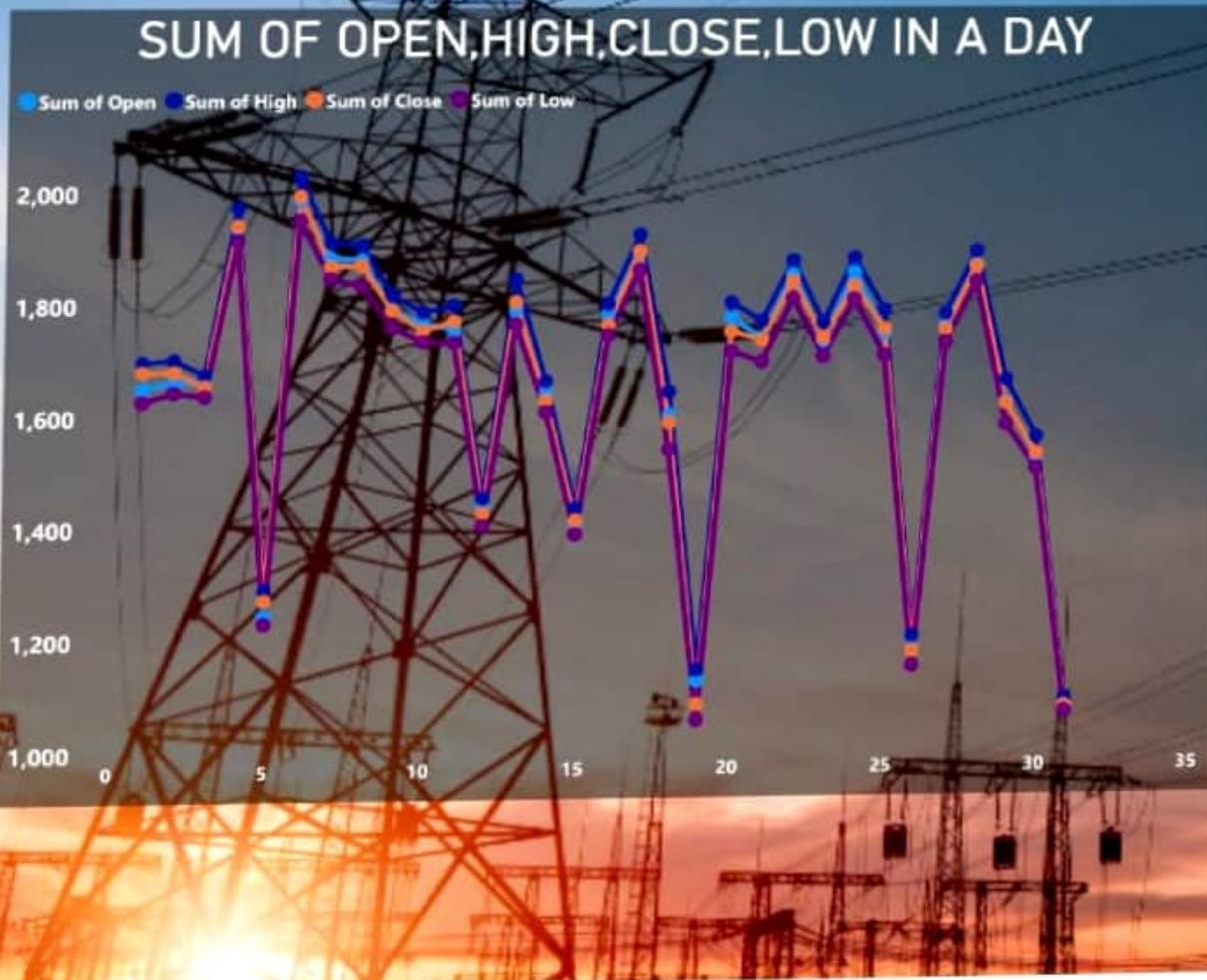


sum of open and close based on month

sum of high and low based on year

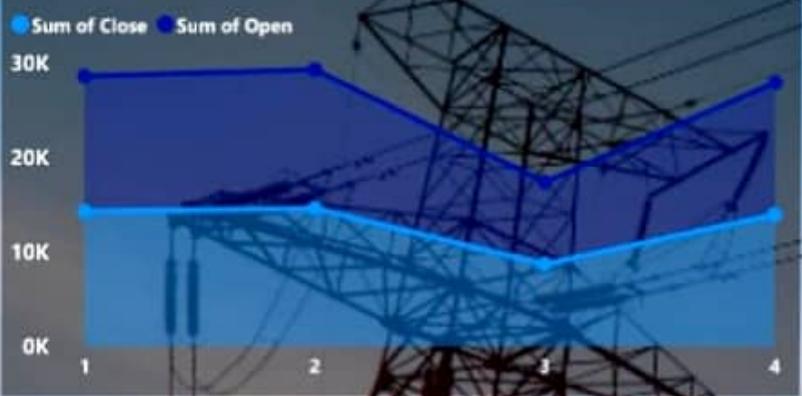


DATA VISUALIZATION



sum of open ,close, high
and low for single day

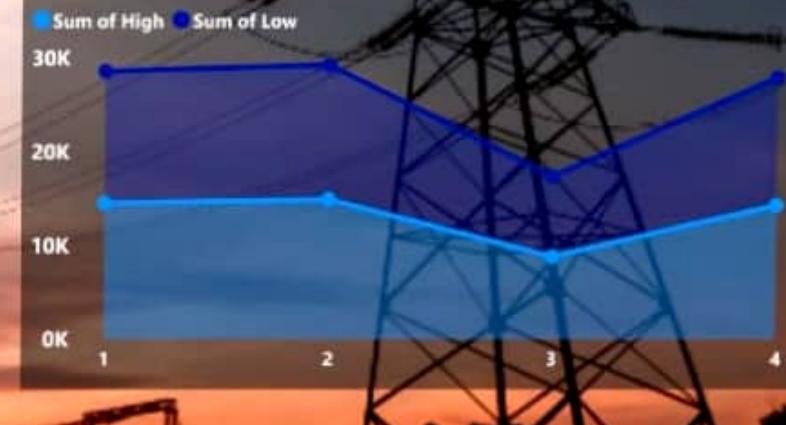
SUM OF OPEN AND CLOSE IN A QUATER



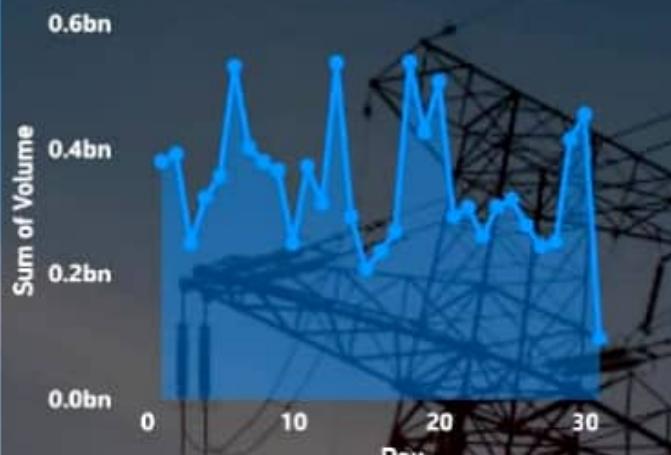
sum of open , close based on quarter

sum of high , low based on quarter

SUM OF HIGH AND LOW IN QUATER



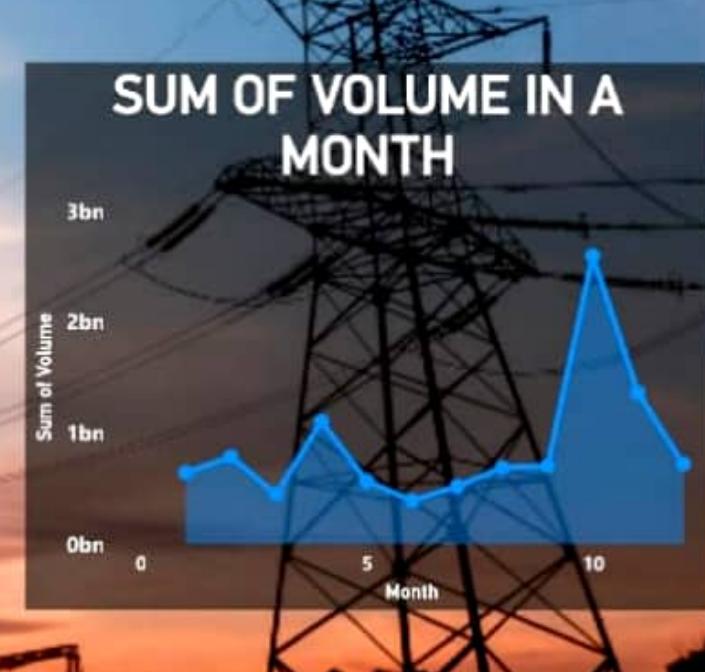
SUM OF VOLUME IN A DAY



sum of volume based on day

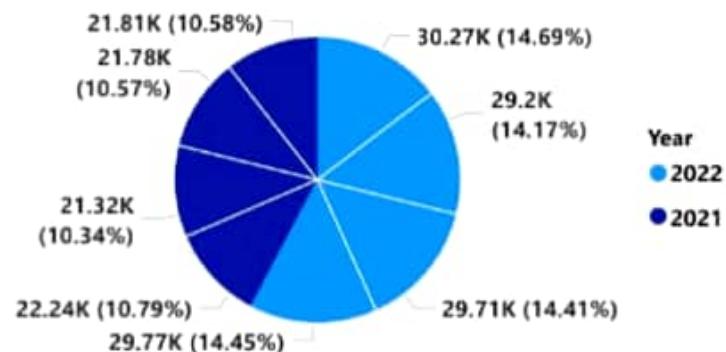
sum of volume based on month

SUM OF VOLUME IN A MONTH

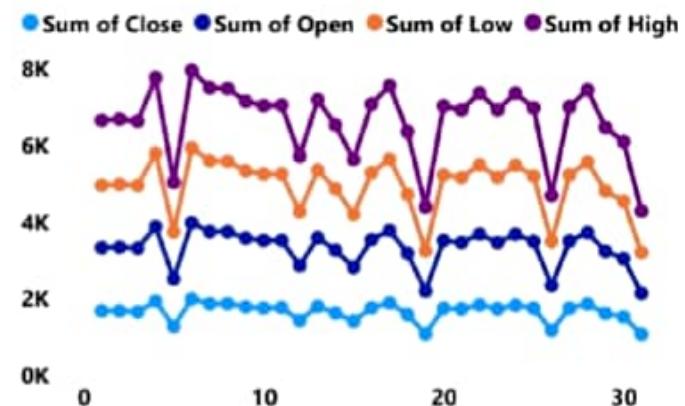




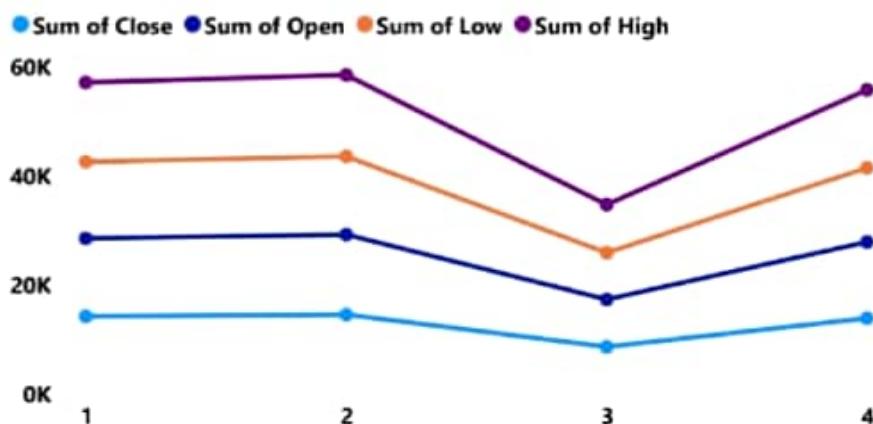
TATA POWER MARKET SUMMARY



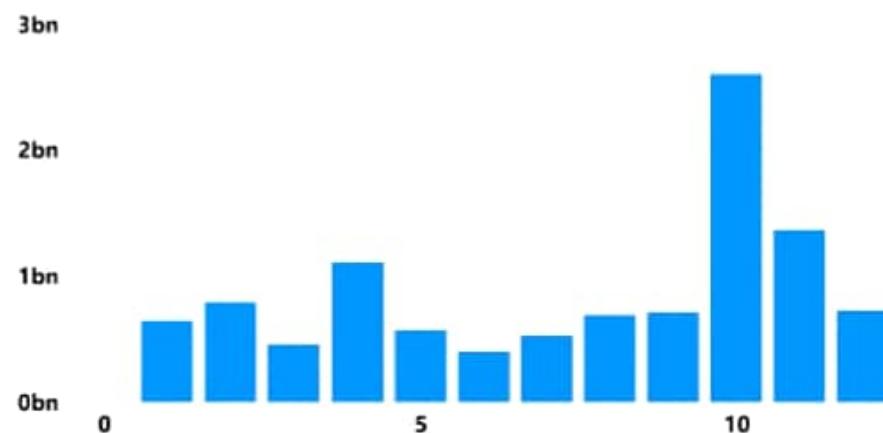
STOCK TRENDS IN A DAY



STOCK TRENDS IN A QUARTER

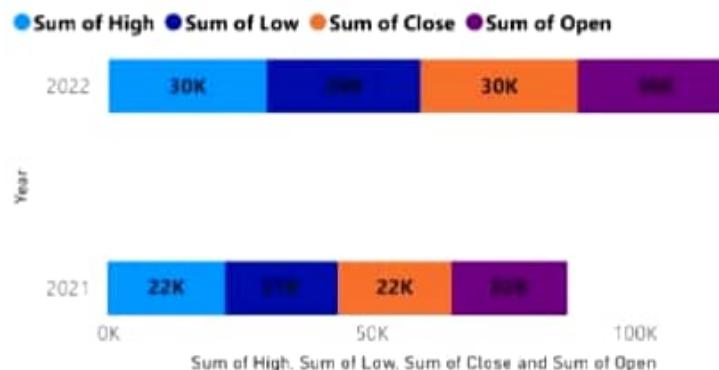


VOLUME IN A MONTH

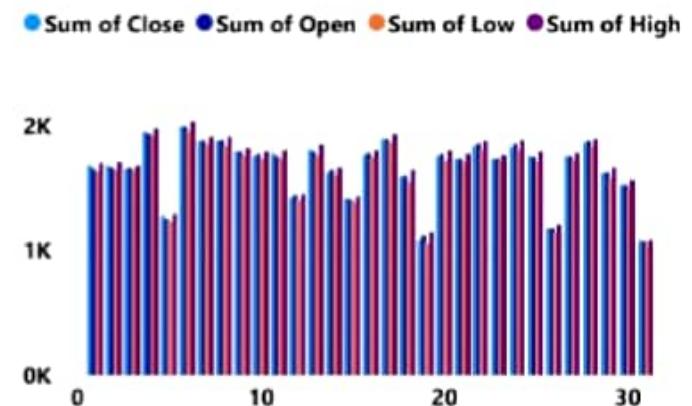




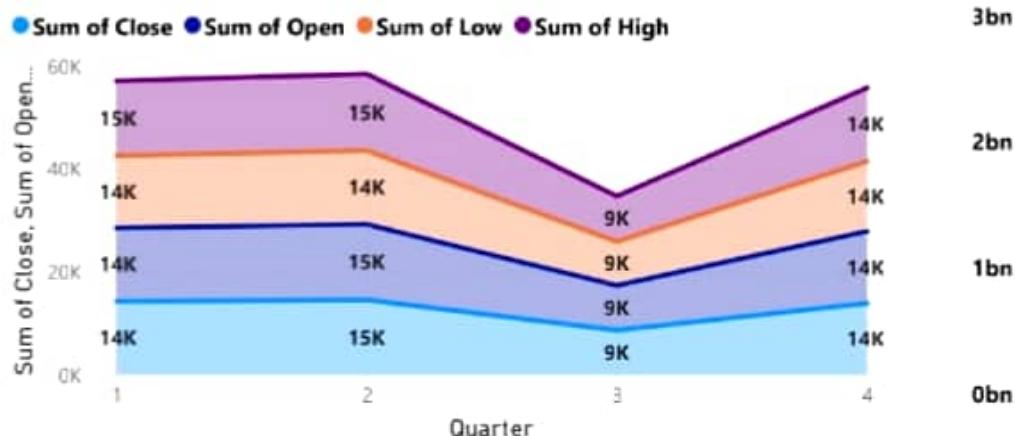
TATA POWER MARKET SUMMARY



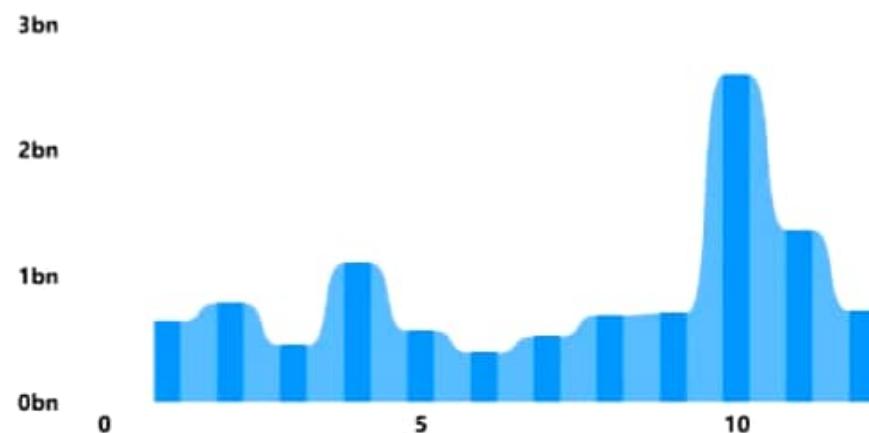
STOCK TRENDS IN A DAY



STOCK TRENDS IN A QUARTER



VOLUME IN A MONTH



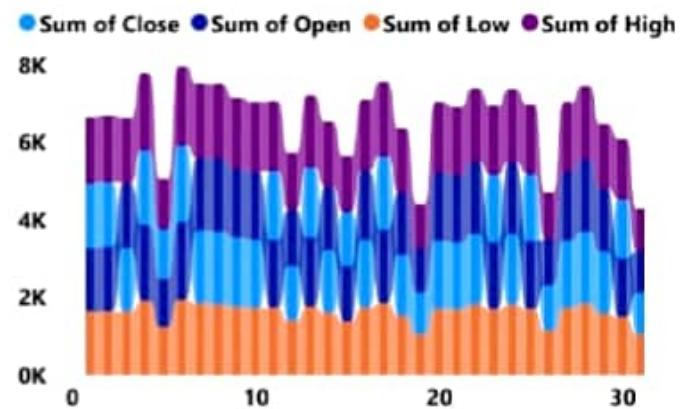
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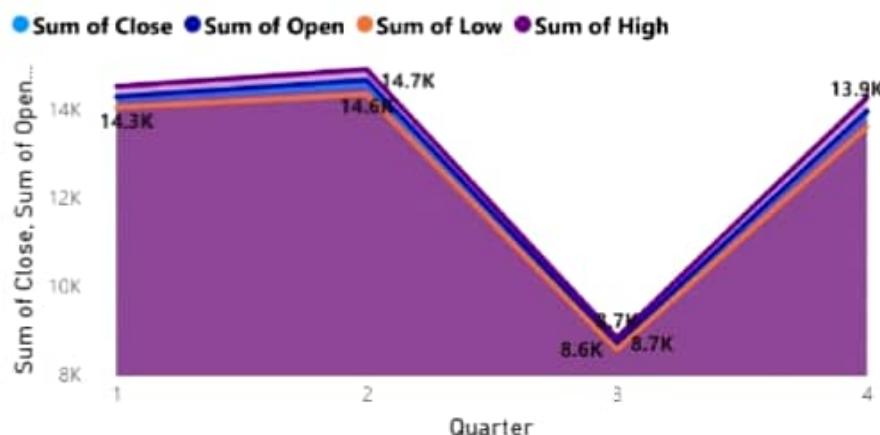
TATA POWER MARKET SUMMARY



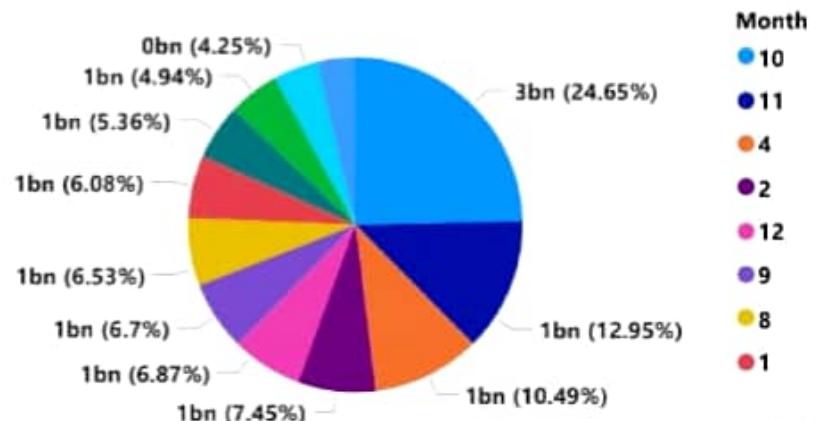
STOCK TRENDS IN A DAY



STOCK TRENDS IN A QUARTER

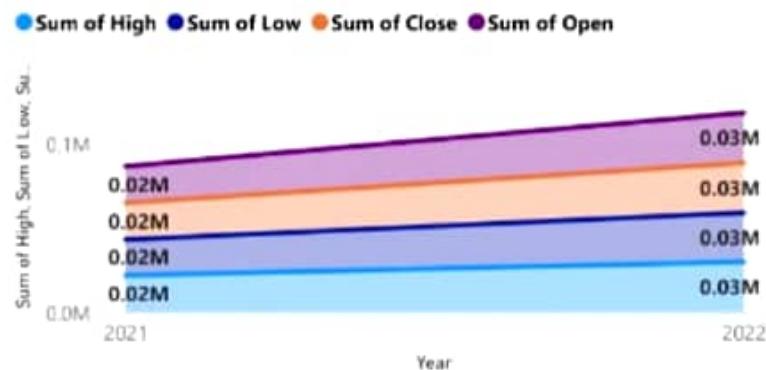


VOLUME IN A MONTH

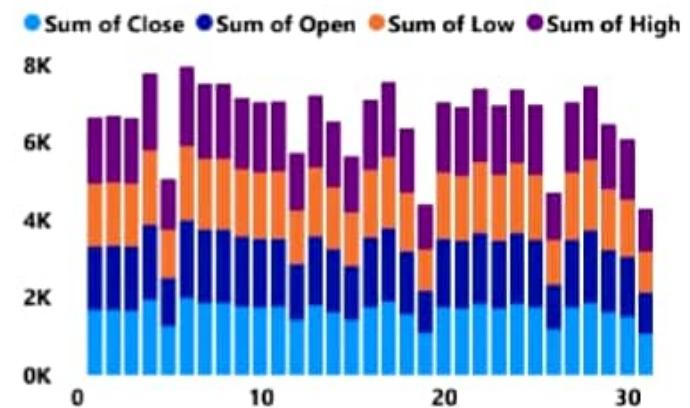




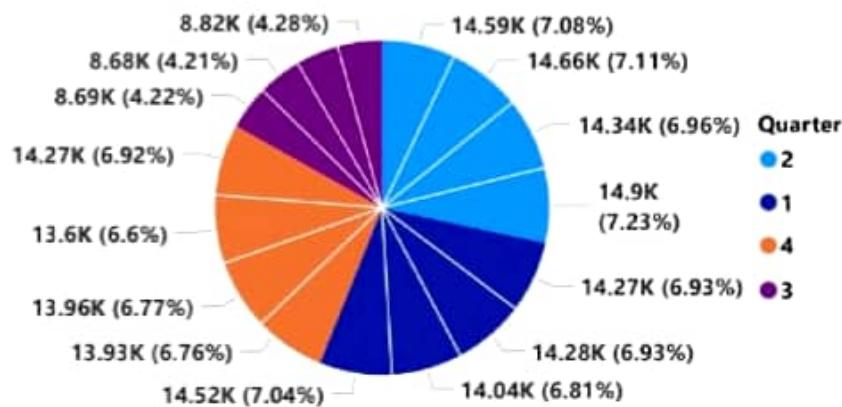
TATA POWER MARKET SUMMARY



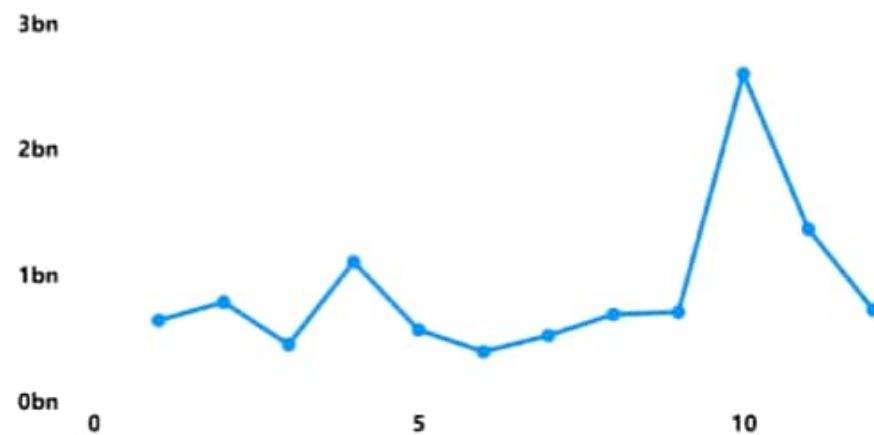
STOCK TRENDS IN A DAY



STOCK TRENDS IN A QUARTER



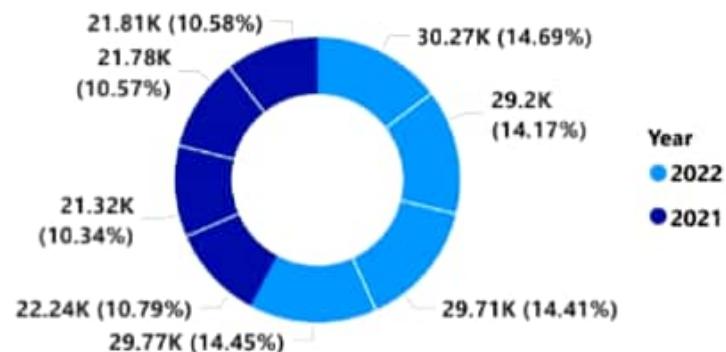
VOLUME IN A MONTH



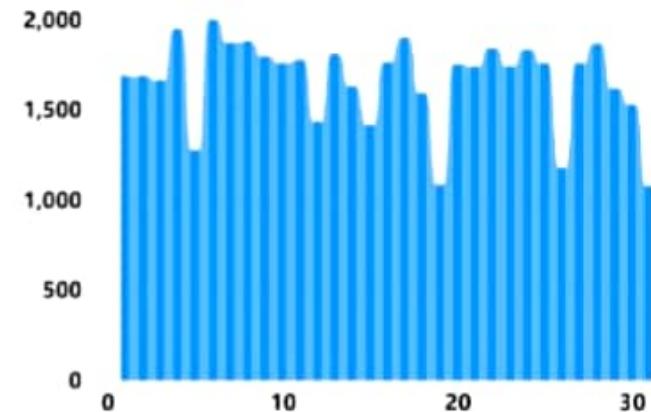
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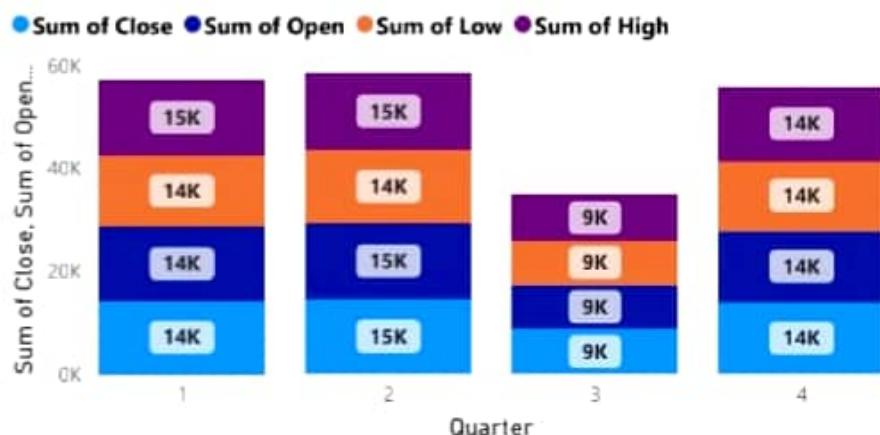
TATA POWER MARKET SUMMARY



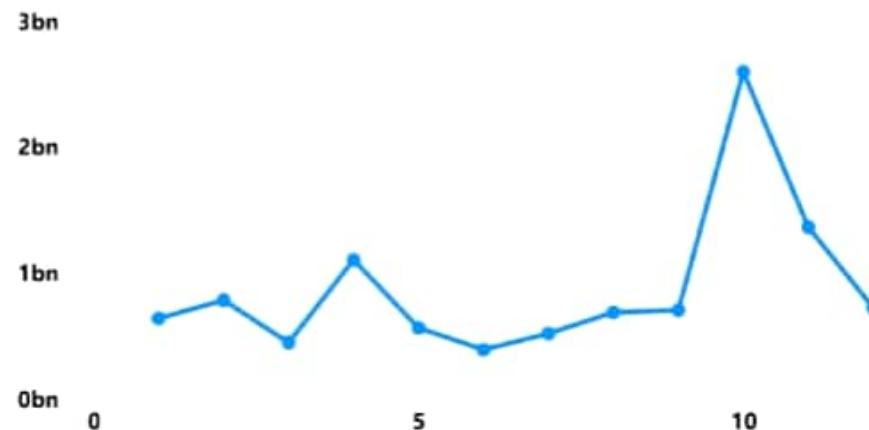
STOCK TRENDS IN A DAY



STOCK TRENDS IN A QUARTER



VOLUME IN A MONTH



REPORT

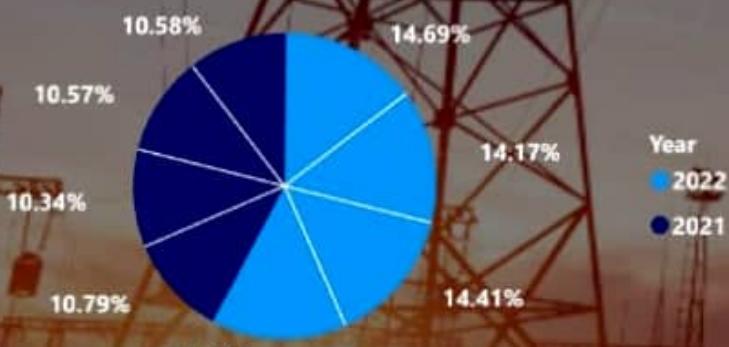
VOLUME



DAY



YEAR



QUARTER



50.53K

Sum of Low

52.51K

Sum of High

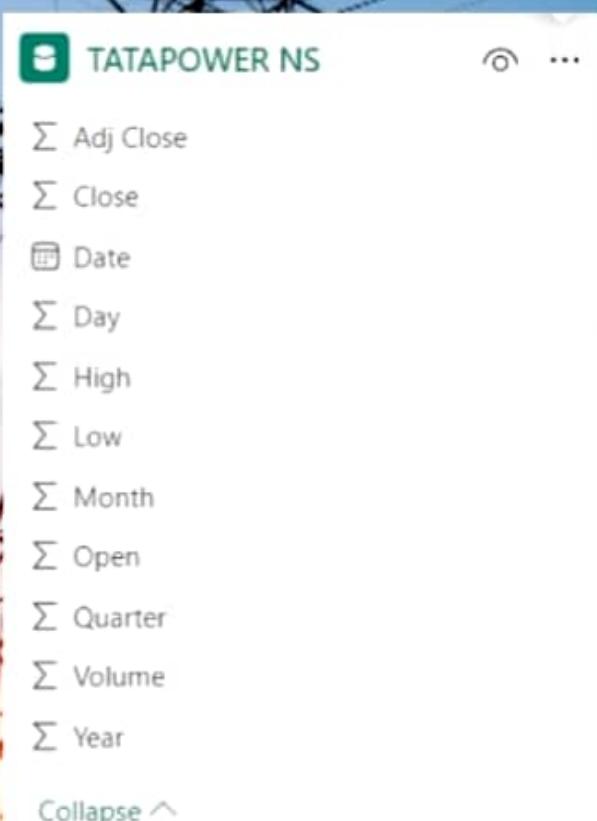
51.48K

Sum of Close

51.58K

Sum of Open

PERFORMANCE TESTING



Amount of Data Loaded

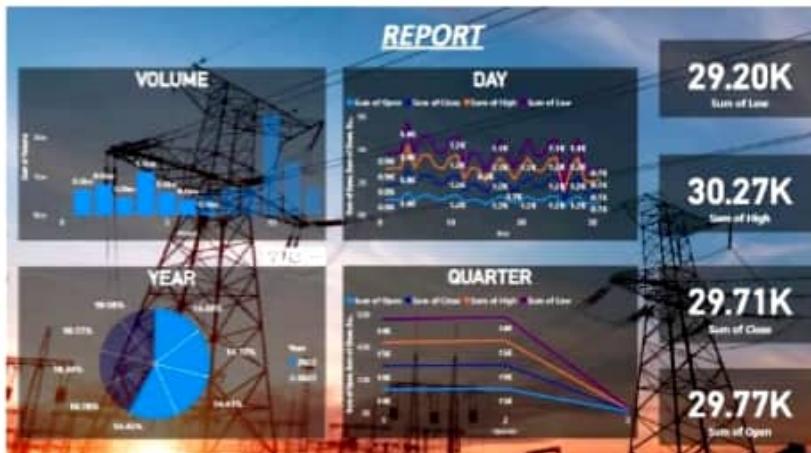
"Amount of Data Loaded" refers to the quantity or volume of data that has been imported, retrieved, or loaded into a system, software application, database, or any other data storage or processing environment. It's a measure of how much data has been successfully processed and made available for analysis, manipulation, or use within the system

PERFORMANCE TESTING

SELECTED VOLUME AS A FILTER



SELECTED YEAR AS A FILTER



Utilization of Filters

"Utilization of Filters" refers to the application or use of filters within a system, software application, or data processing pipeline to selectively extract, manipulate, or analyze data based on specified criteria or conditions. Filters are used to narrow down the scope of data, focusing only on the relevant information that meets certain predefined criteria.

SELECTED DAY AS A FILTER



PERFORMANCE TESTING

NO OF VISUALIZATIONS / GRAPH

1. Total year openings of tata power stock trend
2. total year closing of tata power stock trend
3. total year high of tata power stock trend
4. total year low of tata power stock trend
5. sum of open and closed based on month
6. sum of high and low based on year
7. sum of open ,close, high and low for single day
8. sum of open , close based on quarter
9. sum of high , low based on quarter
10. sum of volume based on day
11. sum of volume based on month

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
8-07-24 Day -1 Monday	Introduction of Data Analytics with Power BI	Basic view about Data analytics with power BI	Sunit
9-07-24 Day -2 Tuesday	Understanding of data analytics tools & technologies DA applications, DA process types of DA	Learned about data analytics and its basic	Sunit
10-07-24 Day -3 Wednesday	Downloading of power BI tools, Data visualization and statistical analysis	Learned how to download power BI and how to apply Data visualization & statistical analysis	Sunit
11-07-24 Day -4 Thursday	Over view of power BI tools features and Applications	Learned about the brief view about power BI	Sunit
12-07-24 Day -5 Friday	Live tutorial on setting up data in power BI	Learned about how to use power BI with setting up data.	Sunit
13-07-24 Day -6 Saturday	Practicing the power BI tools.	practicing the Power BI.	Sunit

WEEKLY REPORT

WEEK - 1 (From Dt...8/01/24 to Dt...13/01/24)

Objective of the Activity Done:

To know about the applications, tool basic formulas to used while analysing data from large data tool.

Detailed Report: The Short term internship program for

the course track "DATA ANALYTICS WITH POWER BI"

commenced with a program Orientation session

aiming at providing a brief overview on the course, importance, job opportunities associated with

future scope etc. On Day 1 Introduction to data analytics

with power BI and Overview of DA. including, definitions

importance and real world applications. On Day 2. Deep

Dive into DA tools and technologies Detailed review of tools

such as Tableau, power BI, and advance analytics platforms.

DA process In-depth look at each step of the analytic

process. types of DA Detailed exploration of descriptive,

predictive, diagnostic and prescriptive analytics with examples

On Day 3. Introduction to Power BI downloading and installing

Power BI desktop. Visualization such as bar, charts, line graphs &

pie charts. Overview of statistical functions in power BI such

as mean, median and SD. Day 4 Overview of features in

Power BI and how to use Power BI for creating interactive report,

sharing insights. Day 5 Live tutorial on setting up Data

in power BI. step by step guidance on importing data,

setting up data models, and creating initial reports.

On Days 6 practicing power BI tools hand on practice with.

power BI tools to reinforce learning.

ACTIVITY LOG FOR THE SECOND WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Monday Day - 1 15-07-24	Importing data from various sources into Power BI	By this week we learned how to import data in power BI	Sujit ✓
Tuesday Day - 2 16-07-24	Data cleaning and transformation using Power Query Editor.	Learned about how to clean data by using Power Query	Sujit ✓
Wednesday Day - 3 17-07-24	Fundamentals of Business Intelligence [public holiday]	Learned about developing and publishing power BI reports.	Sujit ✓
Thursday Day - 4 18-07-24	Fundamentals of Data modelling in power BI	Learned about logical represent and how data are related within tools	Sujit ✓
Friday Day - 5 19-07-24	Creating relationships between data sets.	Learned about connections between 2 or more different tables within data model.	Sujit ✓
Saturday Day - 6 20-07-24	Practicing data cleaning in power BI desktop	practicing data cleaning by using power BI	Sujit ✓

WEEKLY REPORT

WEEK - 2 (From Dt. 15/07/24 to Dt. 20/07/24)

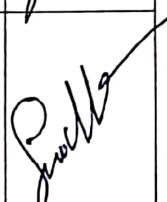
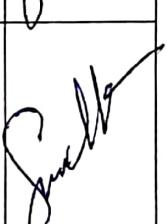
Objective of the Activity Done:

Applying Data in power BI and cleaning and transformation

Detailed Report:

On Day 1 of second week importing data from various sources into power BI and also understanding various data options in power BI by importing data from diverse sources and dealing with basic import setting. Day 2. cleaning and transformation using power Query editor for data transformation tasks. Practiced data cleaning techniques such as removing duplicates, filtering data, and transforming data types. Applied data transformations to prepare data for analysis. On Day 3 we learned about fundamentals of BI which covered the foundation concept of BI and also explored the role of BI in Decision making process and importance of Data driven insights. On Day 4 fundamentals of data modelling in power BI covered the topic such as tables, columns, measures and calculated columns. On Day 5 learned how to create and manage relationships using primary and foreign keys. Explored relationships on data analysis and reporting. On last day of second week applied various data cleaning techniques to real-world datasets. Reviewed and refined data cleaning methods learned earlier in the week.

ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Monday Day - 1 22-07-24	Introduction of Data visualization - principle creating basic visualization Power BI	Learned about data visualization in power BI	
Tuesday Day - 2 23-07-24	Introduction of standard charts and advanced charts	Learned about different types of graphs	
Wednesday Day - 3 24-07-24	Live tutorial by setting up a data into data visualization and creating dashboards.	Learned about what how to create dashboards in power BI	
Thursday Day - 4 25-07-24	Introduction of DAX and its functions	Learned about what is Dax and its major functions	
Friday Day - 5 06-07-24	Live tutorial creating dashboards by using DAX Formular	Learned about creating dash boards by DAX formular	
Saturday Day - 6 27-07-24	Practicing data visualization graphs	Practicing data visualization graphs.	

WEEKLY REPORT

WEEK - 3 (From Dt. 22/07/24 to Dt. 07/07/24)

Objective of the Activity Done: Understand and apply data visualization principles and utilize DAX formulas for enhanced data analysis.

Detailed Report:

On Day 1 of the third week introduction of Data visualization and we understand the importance, key principles of effective data visualization. On Day 2 overview of standard charts (~~Scatter~~ plots, bar, column, line, pie, etc) introduction to advanced charts (scatter plot, waterfall charts, heatmaps, etc) also we understand when to use each type of chart and creating visualization using different standard charts. On Day 3 live tutorial of transforming data for visualization creating interactive dashboards best practices for dashboard design. On Day 4 dashboards best practices for dashboard design. Overview of DAX (Data Analysis Expression) Explored common functions provided examples of how to use DAX functions for data analysis and reporting. On Day 5 Demonstrated how to apply DAX formulas with power BI to create dynamic dashboards. participants followed along to incorporate DAX functions into their dashboards for advance calculations and data insights. On Day 6 provided participants with practice datasets to create various types of visualizations.

ACTIVITY LOG FOR THE FORTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
monday Day - 1 29/07/24	Sharing and collaborating on reports using Power BI Service.	Learned how to create institutional mail for power BI service.	Sudha
Tuesday Day - 2 30/07/24	staying update with the latest power BI features, best practice of data analytics.	practiced the power BI and update with latest features.	Sudha
Wednesday Day - 3 31/07/24	Preparing for ament test	Day :1 preparation for ament test	Sudha
Thursday Day - 4 01/08/24	practicing for ament test	Day :2 preparation for ament test	Sudha
Friday Day - 5 02/08/24	Ament test	Performing the ament.	Sudha
Saturday Day - 6 03/08/24	Discussion about project	converation about the project with group.	Sudha

WEEKLY REPORT

WEEK - 4 (From Dt. 09/07/24 to Dt. 03/08/24)

Objective of the Activity Done: Update on Data analytics and power BI project progress and performing ament test

Detailed Report:

On Day 1 of fourth week Explored Power BI service's features for sharing and collaboration, including report publishing, setting permissions, and managing workspaces. Practiced using sharing options and collaboration tools within the power BI service environment. Gained proficiency in sharing reports and dashboards. Identified and practiced effective collaboration with powerBI service. On Day 2. Researched and compiled best practices for data analytics including data modeling and visualization techniques. Updated knowledge on the latest power BI features. On Day 3 preparing for ament test focused study session on key topics, practice exam and study guide. On Day 4 practicing using practice exam and study guide. On Day 4 practicing for ament test analyzed practice test result, revisited challenging topics, and reinforced knowledge. On Day 5 ament test completed the ament test, managing time effectively and applying learned knowledge. On Day 6 prepared material and reviewed project goals and outcomes. Developed a plan for addressing feedback and improving the project.

ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
monday Day - 1 05/08/24	Selection of topic for short term internship	Selection topic for project	S.M
tuesday Day - 2 06/08/24	Data collection & extraction from Data Base.	collection and Evaluation of the Data project	S.M
Wednesday Day - 3 07/08/24	Data cleaning for visualization.	Cleaning Data for project	S.M
Thursday Day - 4 08/08/24	Preparing dashboard By using data visualization.	Designing dash Board for the project	S.M
Friday Day - 5 09/08/24	Preparing dashboard & By using data visualization.	Designing dash Board for the project	S.M
Saturday Day - 6 10/08/24	Design Report	preparing report for the Entire project	S.M

WEEKLY REPORT
WEEK - 5 (From Dt. 05/08/24 to Dt. 10/08/24)

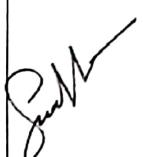
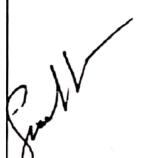
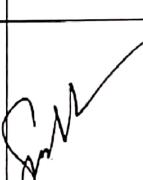
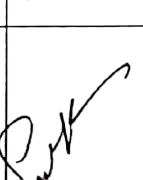
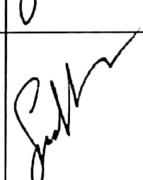
Objective of the Activity Done:

Selection of topic for the project.

Detailed Report:

On Day 1 of the fifth week Selection of topic for short-term internship. Our topic is Evaluation of Investment Opportunities analyzing of tata power stock trend with power BI. On Day 2 Data collecting & extraction from power BI. Database Identified and accessed relevant database. Executed power queries to extract the required data. Organized data into a structured format for analysis. On Day 3 Data cleaning for visualization. Addressed inaccuracies and inconsistencies in the dataset. Handled missing values and outliers. Reformatted data for compatibility with visualization tools. On Day 4 preparing dashboard by using Data visualization tools (e.g. tableau, power BI) Day 5 preparing dashboard by using data visualization. Added advanced visual features and interactivity. Refined dashboard layout based on feedback. On Day 6 Design report compiled data to ensure and visualizations into a cohesive report. Drafted sections including project objectives, methodology, findings and conclusions. Finalized the design and format of the report.

ACTIVITY LOG FOR THE SIXTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Monday Day - 1 12/08/24	Project video demonstration.	Recording the project	
Tuesday Day - 2 13/08/24	Creating GITHUB Account	Creating Account to team members in GITHUB.	
Wednesday Day - 3 14/08/24	Collaborating team members Preparing report commencement	collaborating team members with team leader Account.	
Thursday Day - 4 15/08/24	Assigning task to team members.	Assigning work to every team member.	
Friday Day - 5 16/08/24	Preparing Report	Preparing report for the project.	
Saturday Day - 6 17/08/24	Finalizing the Report	submitting the report.	

WEEKLY REPORT
WEEK - 6 (From Dt.....12/08/24 to Dt.....17/08/24)

Objective of the Activity Done:

Report Submission

Detailed Report:

On Day 1 of the Sixth Week We have done project video demonstration presented an overview of the project scope. On Day 2 Creating GitHub Account to all team members established a new repository for the project. invited all team members to the repository and set appropriate permissions. On Day 3 collaborating with team members & preparing Report commencement collaboratively drafted the initial outline for the report. On Day 4 Assigning task to team members clearly defined tasks and responsibilities for each team member. set deadlines and provided resources needed for task completion. On Days 5 preparing report created initial drafts of the report's content, including text, charts, and tables. On Day 6 Finalizing the report compiled and reviewed the contributions from all team members. prepared the final version of the report for submission.

CHAPTER 5: 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 SmartBridge has been a transformative experience, equipping me with practical skills in data analytics and a deep understanding of the role of Power BI. The hands-on experience of real-world projects has not only exposed me to various tools but also honed my technical abilities. It has also sharpened my communication skills and project management. The work environment fostered a collaborative atmosphere with clear task roles, well-defined protocols, and structured procedures. 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 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 to derive insights.
 - Data visualization : Mastering in creating compelling visualizations for effective communication of data.
 - Analytic tools proficiency : proficiency with web based tools like Microsoft Excel, Tableau, Google Colab for analytic & visualization.
 - programming language : knowledge & expertise in python programming language.
 - visualization Generation : skills in developing interactive Dashboards, Comprehensive reports, narrative stories in power BI.
 - problem solving : Developing solution to challenges encountered during data analysis.
 - Data cleaning and preprocessing : proficiency in Data cleaning & 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 & ensuring the timely completion of the data analytic project.

- Team collaboration.

- working effectively in a group setting, delegating tasks & fostering a collaborative environment.

- Leadership skills.

- taking initiative, guiding the team, & making decisions to achieve project objectives.

- Time Management

- prioritizing tasks, meeting deadlines, & efficiently allocating resources.

- Problem solving as a team.

- Addressing challenges collectively & finding solutions through group discussion (eg) collaborative.

- Adaptability.

- Being flexible and adapting to changes in project scope or requirements.

- Quality Assurance.

- Ensuring the accuracy & quality of the data analysis.

- Feedback & Improvement.

- providing constructive feedback to team members

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 analytic concepts & findings.

- presentation skills.

- Creating & delivering engaging presentations to communicate insights, dashboards, visualizations & project.

- Team Collaboration.

- collaborating with team members to share information, discuss project progress & reports.

- Written communication.

- Crafting clear & reports, documentation and emails related to data analytic processes.

- Conflict resolution.

- Addressing & Resolving conflicts within the team to maintain a positive & productive environment between team members.

- Feedback Delivery.

- Providing constructive feedback to peers, mentors & trainee and receiving feedback, fostering a culture of continuous improvement.

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 Intern, I've identified key areas for enhancing my abilities in group discussions, team participation and leadership.

To improve my contribution in group discussions, I aim to actively listen to others, ask insightful questions and share my opinions, perspectives clearly & effectively. As a team member, I plan to strengthen collaborations 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)

- Advanced Data Connectivity and Integration.
 - Enhanced data sources.
 - Dataflow improvement.
- Empowered Data Modeling and Transformation.
 - Power Query enhancement
 - Data modeling features.
- Advanced analytics and AI integration.
 - Built-in AI Capabilities.
 - Q&A Features.
- Enhanced visualizations and User Experience.
 - Custom visual and themes.
 - paginated reports.
- Collaboration and sharing features.
 - Power BI service enhancement
 - Data insights and alerts.
- Performance and Scalability empowerment.
 - Enhanced performance.
 - Scalability options.
- Security and Compliance Enhancements.
 - Advanced security features.