

## SHORT-TERMINTERNSHIP



## Dr. LANKAPALLI BULLAYYA COLLEGE VISAKHAPATNAM

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## Acknowledgements

on Data Analytics.

J would like to thank our principal cir, Dr. U.S.K. chakravanthy for giving me this wonderful opportunity.

I would also like to thank our head of the Department Miss. Hymavathi mam, DePartment of Bsc computer science and our guide of Mrudula pravema mam for being a wonderful K. Mrudula pravema mam for being a wonderful mentor throughout my project.

g thank my lecturers, mentors and my friends who helped me to do this project. Without them this project would not have been completed.

## This page content gives an idea only, which topics have to write.

### 1: EXECUTIVE SUMMARY

The internship report shall have a brief 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.

### 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
- 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.

#### 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.

## CHAPTER 1: EXECUTIVE SUMMARY Description of the sector of business & Intuin organization

Smart bridge operates in the data amalytics sector Providing innovative solutions to enhance business intelligence with actionable insights, enabling data-driven decision-

<u>Learning</u> objectives and outlomes making.

- 1) understand Power BI jundamentals
- 2) Data modeling fools 3) Proficiency in Power BI
- y) Data vis cleaning & transformation
- 5) Data visualization
- 6) Report Design and sharing Summary of Internship Activities:
- 1) Attending live training sessions and project -
- 2) selection of topic "Analysis of election in India" and gathering, cleaning and analyzing its related datasets in extel.
- 3) Team formation and assignment of tasks to team members.
- 4) Designing or peveloping interactive dashboards, story, report on project using Power BI.
- 5) Drafting a project video demonstration and Preparation of final report.

## chapter-z: overview of the Organization

Smoot Bridge is a platform that offers virtual intenshif to the students. The platforms goal is to prefare students for the job market by establishing a cooperative relationship between industry of Academic. Smart Bridge partners with Companies such as google to offer virtual internships. The internships provide students with hands on experience with the latest technologies and enable project based learning. Smart Bridge's flagship event is the "Summer internship frogram". The program develops students skills in emerging technologies ie 1) Artifical Intelligence

2) Machine Jearning 3) Internet of things.

organitation's objective.

Smart Bridge's main objective is to bridge the existing gaps between prevailing industry standards and what the academics of bers to the graduates while passing out of university. Smart Bridge offers suitable skill development & 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 leave skills of these future. Therefore the main objectives of Smooth bridge is providing internship for every student promote industry approved professional electives become a talent factory of India by 2026.

Charten-3: Intemship part

Description of the Activities | neuronsibilities Undurtaken

D Registering the with Apselle smoot intumship enrolling for smart hidgels data analytic course ie live training sessions as per the rue-scheduled training calender.

2) Participating weekly quiz or completing weekly assignment with respect to data atom at analytics.

3) Crathering Team bornation or detection of Project topic - " Analysis of election in India"

4) Crathering, cleaning or analyzing the excel data sets of the project topic - 11 Analysis of election in India"

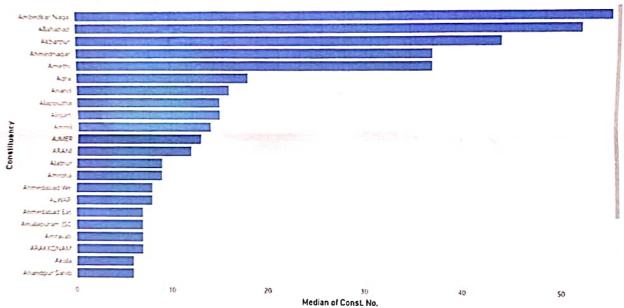
5) At lending Project - mentoring sessions and designing and developing interactive dashboard Report on the project topic using power BI.

6) web integration of above project deliverables with team's webpage using visual studio code, Drafting a project video demonstration and Preparation of Hnal report.

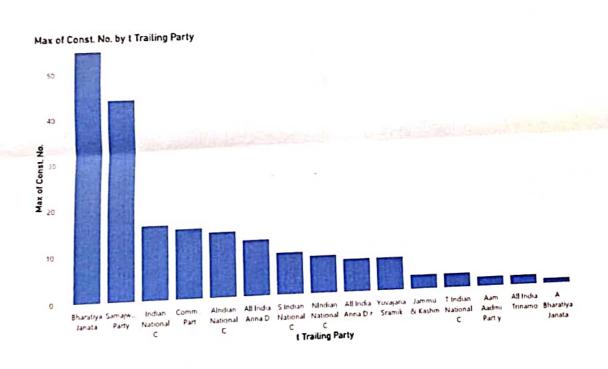
7) Submission of team project via uploading the Project files in withub Repository of the team.

### WHAT IS THE MEDIAN OF CONTITUENCY NO BY CONSTITUENCIES

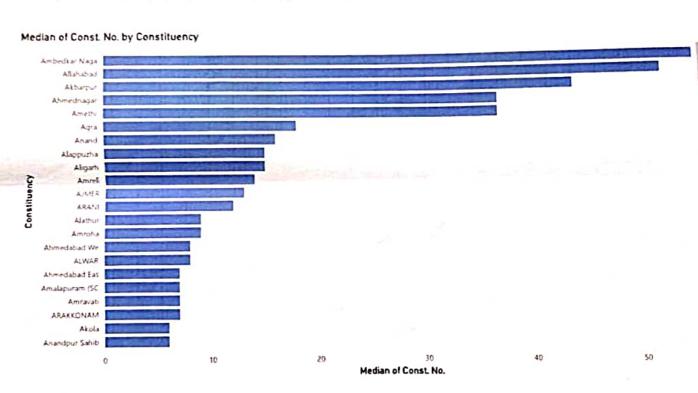




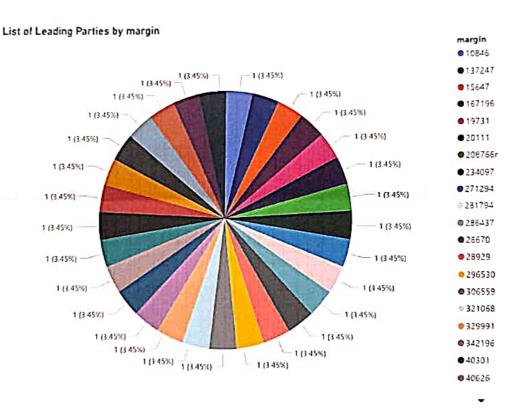
## WHAT IS THE MAXIMUM CONSTITUENCY NO BY TRAILING PARTIES



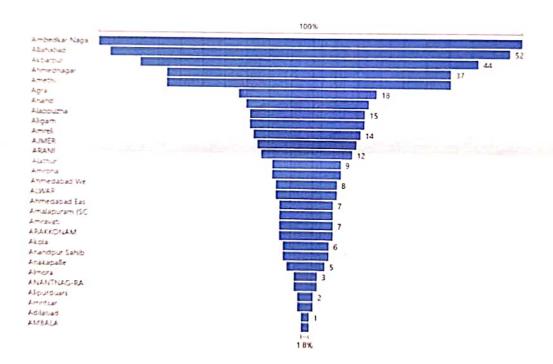
## WHAT IS THE MEDIAN OF CONTITUENCY NO BY CONSTITUENCIES



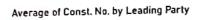
## LIST OF LEADING PARTIES BY MARGIN OF SEATS

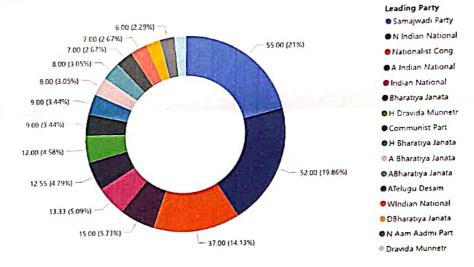


### WHAT IS THE MAXIMUM OF CONTITUENCY NO BY CONSTITUENCIES

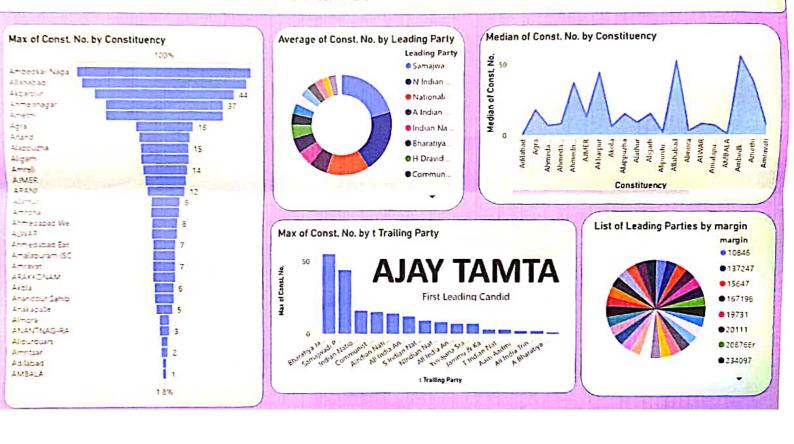


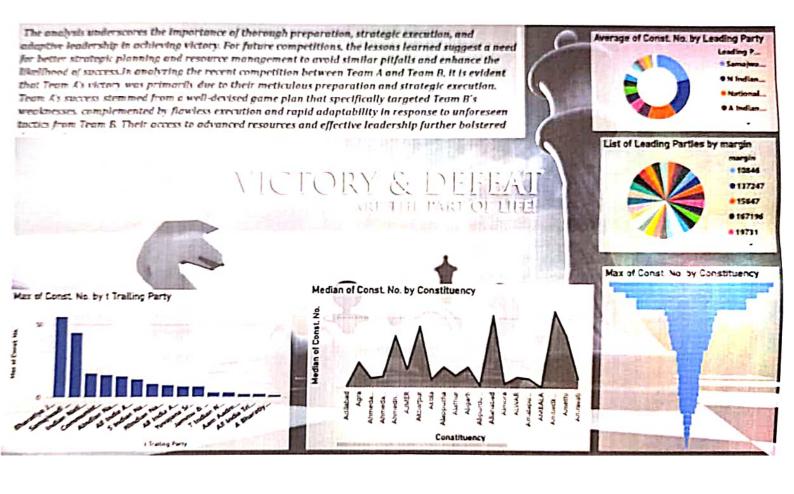
## WHAT IS THE AVERAGE OF CONSTITUENCY NO BY LEADING PARTIES





#### ANALYSIS OF ELECTION RESULTS IN INDIA





## ACTIVITY LOG FOR THE FIRST WEEK

| Day<br>&<br>Date | thrief description of the daily activity     | Learning Outcome                                    | Person In-<br>Charge<br>Signature |
|------------------|--|---|-----------------------------------|
| Day - 1          | Introduction of data analytics               | Analysis of   |                                   |
| Day - 2          | Introduction of data Analytics.              | Aralysis od<br>the topic                            |                                   |
| Day - 3          | Agenda and unders<br>tanding coustumers      | clear view of<br>buisness problem<br>and solutions  |                                   |
| Day – 4          | Analysis and imple-<br>menting data          | Putting the data in visual                          |                                   |
| Day – 5          | data Analytics application                   | loserned about<br>different toules<br>and insightes |                                   |
| Day—6            | Researched the additional information online | additional mforma<br>tion about                     |                                   |

## WEEK-Z (From Dt. 8 / 1/24 to Dt. 1217 124 )

| WEEK'S (From Dt. D. L. J. J. S. |
|---|
| Objective of the Activity Done Dala townsformtion and Modeling      |
| Detailed Report: The vsecond week founded on data                   |
| teanformation and Modeling within Power & I.                        |
| We leavined to clean, overhape,                                     |
| and prepare data using power guerry                                 |
| Editor. The learning solvered Essential                             |
| textions like littering, merging and oppend                         |
| functiones like filtering, merging and oppend                       |
| -ing dataset.  Additionally, we were interoduced                    |
| to data modeling conceptes such no relation                         |
| - shipe, candinality, and data hieranchies.                         |
| The practical sessions helped                                       |
| reinforces these conceptes by allowing us                           |
| to secate and manage data models                                    |
| elledible.  |
| Across of   |
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## ACTIVITY LOG FOR THE FIRST WEEK

| Day<br>&<br>Date | Brief description of the daily<br>activity | Learning Outcome                                    | Person In-<br>Charge<br>Signature |
|------------------|--|---|-----------------------------------|
| Day - 1          | Introduction of<br>data avalytics          | Analysis of   |                                   |
| Day - 2          | Interoduction of data Analytics            | Aralysis 0.1<br>the topic                           |                                   |
| Day – 3          | Agenda and unders<br>tanding coustumers    | clear view of<br>buisness problem<br>and solutions  |                                   |
| Day – 4          | Analysis and imple-<br>menting data        | Putting the data in visual                          |                                   |
| Day <b>–</b> 5   | data Aralytics application                 | loseined about<br>different toules<br>and insightes |                                   |
| Day—6            | Researched the additional information      | additional mforms                                   |                                   |

# WEEKLY REPORT WEEK-1 (From Dt 3/1/24 to Dt 5/1/24 ...)

| Objective of the Activity Done: Introduction to Paila Analytics and Power BI            |
|---|
| Detailed Report: (in the tienst week we were interoduced                                |
|   |
| to the fundementales of data analyticas, Emphasizing the scole of data-desiren decision |
| Emphasizing the stole of child assiver constant   |
| making in backin bushings the   |
| convoied the basics of data analytics, Defferent  |
| types of data, and the importance of  |
| data listialization.  |
| We also Explored Power BI,  |
| to de como como lestrores   |
| underestanding ites interface, features,  |
| and how it integrated with other  |
| Microsoft productes.  |
| The week concluded eveth a  |
| Jandes- on session on loading and   |
| kanspring data en power BT.   |
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## ACTIVITY LOG FOR THE SECOND WEEK

| Day<br>&<br>Date   | Brief description of the daily activity | Learning Outcome                                  | Person In-<br>Charge<br>Signature |
|--------------------|---|---|-----------------------------------|
| Day – 1            | pata Analytics application              | leavened about different toute and insightles     |                                   |
| Day - 2            | Data Analylics application              | where it is used in diff sec                      |                                   |
| Day – 3            | data Analytics<br>process and steps is  | learned about<br>deta Cleaning<br>and processing  |                                   |
| Day – 4            | data Analyticus<br>process and steps is | learned obbited<br>data dearing<br>and processing |                                   |
| Day – 5            | types of data<br>Analyties              | different types                                   |                                   |
| Day <del>-</del> 6 | Rovision on given                       | Revised DA  |                                   |

## WEEKLY REPORT (From Dt. B. 17134 ..... to Dt. 1217 124 .....)

| Objective of the Activity Done 1 June Soumilion and Mo                             | deling   |
|--|----------|
| Detailed Report: The viccond week. Journel on de                                   | ala      |
| teanformation and Modeling within Pour   | ou BI.   |
| We leavened to sclean, sushap  | e,       |
| and prepare data using pouser guer   | 4        |
| Editor. The learning covered Essential   |          |
| functions like filtering, merging and ing dataset.  Additionally, we were interedu | oppend   |
| -ing dataset.  | 11       |
| Additionally, we were interede   | iced     |
| to data modeling conceptes such sos  | relation |
| - oshipos, cardinality, and data hierarc   |          |
| The practical sessions helped  | 1        |
| reinforces there conceptes by allow  | ing lbs  |
| to secate and manage data models   | J        |
| Effectively.   |          |
| W  |          |
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## ACTIVITY LOG FOR THE THIRD WEEK

| Day<br>&<br>Date | Brief description of the dally activity | Learning Outcome                  | Person In-<br>Charge<br>Signature |
|------------------|---|-----------------------------------|-----------------------------------|
| Day <b>–</b> 1   | business problems and the solutions     | challenges fored in organization  |                                   |
| Day - 2          | business problems and the solutions     | in organization                   |                                   |
| Day – 3          | Power Blin<br>Action                    | visible meights Es sales for Cost |                                   |
| Day – 4          | B 1<br>Architecture                     | looned<br>about<br>stembure       |                                   |
| Day – 5          | BI<br>Architecture                      | leavne d<br>about<br>Steweture    |                                   |
| Day –6           | Revision on gives<br>topies.            | Revesed<br>about DA               |                                   |

## 

| The state of the s |
|--|
| Objective of the Actuvity Done: Lata lasualization Techniques  |
| Detailed Report: In the third Week, the  |
| Emphasies was on data Visualization  |
| Tochniques laking pouver by.   |
| chartes, graphes, and maps that can  |
| shoutes another and maps that can  |
| be recated in power BI to liscralization.  |
| data ensightes.  |
| The sessions included beast  |
| practices for selecting the night  |
| Lioughization based on the type of   |
| data and the message we want to  |
| Contour use also beened about Customi  |
| -zing Visual Elements, using themes.   |
| and Entrancing reportes with interactive   |
| the plant and dillations for   |
| features like diceros and deill-throughos  |
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## ACTIVITY LOG FOR THE FOURTH WEEK

| Day<br>&<br>Date  | Brief description of the daily<br>activity | Learning Outcome                       | Person In-<br>Charge<br>Signature |
|-------------------|--|--|-----------------------------------|
| Day - 1           | pala to insights flow in Power BI          | locoined about about and model view    |                                   |
| Day - 2           | tables and merges                          | leavanodabut<br>the kinds in<br>merge  |                                   |
| Day – 3           | table and morges                           | loosined about the kinds in merge      |                                   |
| Day - 4           | eth took in Power overy                    | whilize power<br>BI data<br>Hows       |                                   |
| Day – 5           | Fower query                                | whilize power<br>or deta<br>flows      |                                   |
| Day <del>-6</del> | Reseached the additional information       | additional<br>information<br>about 131 |                                   |

| Detailed Report: Joseph Detailed Report:        |
|---|
| Detailed Report: Week four delved into odvanced |
| Neek Jour delved into assures                   |
| minugues vano Dala Malylies expelleration       |
| (DAX) en Power BI.                              |
| We leaved how to regate                         |
| calculated columns, measures, and westorn       |
| tables wing DAX. The braining Conversed         |
| complex DAX functions such as line              |
| intelligence filtering, and aggregations.       |
| Mc also Explored advanced                       |
| analytical techniquees like terend analysies,   |
| jorecasting, and what if scanacious.            |
| The week Ended with Excusives                   |
| to build dynamic suports eding DAX -            |
| Leeven ensightes.                               |
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## ACTIVITY LOG FOR THE FIFTH WEEK

| Day<br>&<br>Date | Brief description of the daily activity        | Learning Outcome                                  | Person In-<br>Charge<br>Signature |
|------------------|--|---|-----------------------------------|
| Day – 1          | data sources dash<br>boardes and<br>insightles | learned those these one used in BI                |                                   |
| Day - 2          | data collection and dita cleaning              | Leavened about the process                        |                                   |
| Day – 3          | deta Collectión<br>and deta<br>Cleaving        | lowered about the process in OA                   |                                   |
| :<br>Day – 4     | data tralyfics expressions (nax)               | looned about<br>the enpression<br>and functions   |                                   |
| Day – 5          | data Analytics<br>Exposusion (DAX)             | Leavened doct<br>the exepression<br>and functions |                                   |
| Day –6           | discussion<br>Regarding project                | discussed about project.                          |                                   |

# WEEKLY REPORT 2 6 124 ......)

| Week-5 (From Dr.S., L. L. Sallania V        |
|---|
| Objective of the Activity Done:             |
| The fifth bleck Converced cite. Tower       |
| BI securice and its collaborations          |
| 102 1113/103 .                              |
| We leaved how to publish                    |
| superties to the priver BL. searing. Ishare |
| dashboarde and collabrate with team         |
| memberes in real time. The sessiones        |
| Emphasized data security, now-level         |
| selwity. (RIS), and managing workspaces.    |
| Me also Explosed power B'S                  |
| integrations with other microsoft skills.   |
| troles. like Exal, Teams, and shake point   |
| making it Easier to collaborate and         |
| shop insights across the organization.      |
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## ACTIVITY LOG FOR THE SIXTH WEEK

| Day<br>&<br>Date | Brief description of the daily activity       | Learning Outcome                       | Person In-<br>Charge<br>Signature |
|------------------|---|--|-----------------------------------|
| Day - 1          | filter functions                              | different filters                      |                                   |
| Day - 2          | filter functions<br>in DAX                    | of fount filles                        |                                   |
| Day – 3          | preparations for grand assessment test        | preparation to assessment test         |                                   |
| Day <b>– 4</b>   | preparation for<br>grand assessment<br>test   | prepareition for<br>ausessment<br>test |                                   |
| Day – 5          | grand assessment<br>test                      | grave the grand auseumentest           | 1                                 |
| Day <b>–</b> 6   | Researched the additional information online. | additional information about BI        |                                   |

WEEKLY REPORT 9/6/24.....) Objective of the Activity Done; Best proclice and industry officiones.

Detailed Report: In the final week of internation classes, we jouwed on best proclices in data analytices and oreal world power indestries He dicrossed key strategies also included case how Companies showcasing Businesses intelligence, soles veporting usics , financial Efficiency, the week overvoice

| Detailed Report:  The seventh week marked the                                |
|--|
| Detailed Report: 1   |
| The seventh week mained the  |
| he started by defining the   |
| project vscope, objectives and deliverables.                                 |
| The project involved analyzing   |
| is dataset providing by smart intering.                                      |
| cleaning and burnsforming the data and building a data models.               |
| huldin a data models.  |
| Dus team focused on dentification  |
| key meterices, brends, and patterns that                                     |
| could dont business. décissiones.  |
| The initial supportes and  |
| duplomentes bleve weated to resulting these                                  |
| insights, using the skills and techniques                                    |
| Insights, noting the skills and techniques leavened over the past six weeks. |
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| WEEK-8 (From Dt   |
|---|
| Objective of the Activity Done: Finalization and presentation.  |
| Detailed Report: To the live we computed  |
| The soint by west of me our suportes with   |
| dashboards, Ensuring they met the project   |
| SLOO LICENTEON L  |
| We joursed on Enhancing the   |
| View 10 1 10000 1 1000 1000 1000 1000 1000  |
| dashboardes by adding interactive Elementes and Encurring the data was accurately                                       |
| and Enouving the data was accurally   |
| sepresented the week Culminated carrier   |
| presentation to the smoot interna term,   |
| where we showcooled for our findings,   |
| Explained the methodologies used, and   |
| I have the sociation could be   |
| applied to solve data avalutions.   |
| applied to solve data analytics.  The project was well received,  marking a successful conclusion to be  the intenship. |
| muking a successful conclusion to be  |
| the interplier  |
| GIC WILD USING.   |
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## 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, harmonlous relationships, socialization, mutual support and teamwork, motivation, space and ventilation, etc.)

Description of work envisionment:

The intumship at smooth Bridge has been a transformation experience, equipping me with practical skill in data analytics and a deep understanding of power BI. The hands on experience a exposure to real-world projects has not only snarpened my technical abilities but also improved my communication skills and project management SKIIIS. The work environment fastered a collabrative atmosphere with clear task-roles, well - define protacils o structured procedures. The facilities were easiffed with necessary tools for data analysis- Jean members exhibited mutual Support or team work, contributing to a harmonious relationship overall, the internship provided a well-organized Comprehensive experience in data analytic 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 technical skills acquired

· Data Analysis: Proficiency in examining and appluin

\* <u>statistical</u> <u>Analysis</u>: understanding and applying statistical <u>Analysis</u>: understanding and applying

\* <u>Pata visualization</u>: Mastery in vienting Compelling visualization for effective Communication of data-

\* Programming Language: Knowledge & expertise in programming Language

\* Visualitation generation: skills in developing interactive dashboards, comprehensive reports in Power BI.

\* Data transformation: gransforming the data using power bury which involves data cleaning, merging, appending.

\* Performance optimization: Improving the performance of reports by optimizing data models, reducing data set size and managing relationships.

issues related to data supresh aways everos and visual inconsistementes.

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 managerial skills acquired:

\* Project management: coordinating tasks setting goals a conswring the timely completion of the data analytius project.

F Jean collabration; wolking efficiency in a group setting, delegating tasks & fostering

a collabrative environment.

\* Leadership SKills: jasking initiative, guiding the team and making decisions to achieve Project obsectives.

\* Time management: prioritizing tasks, meeting deadlines, or efficiently allocating resources.

\* Problem solving as a team: Addressing challenges collectively or finding solutions through group discussions à coll bration.

\* Adapatability -- Bring blexible adopting to challenges in project scope on requirem

requirements.

\* Quarity Assurance: ensuring the accuracy & audity of audity of the data analytics Project deliverables produced by the team.

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 Skill a caused:

\* Jechnical Communication: effectively
Conveying Complex data analytics Concepts

E findings.

\* presentation <u>SKIIIS</u>: Geating or delivering engaging presentations to Communication insights, dashboard, visualitation E Projects.

\* Jeam collabration: collabrating with team numbers to shave information, discuss Project Progress & Up date.

written communication: Crafting Clear & Concise reports, documentation and emails related to data analytics frocuses.

\* Conflict resolution: Addressing & Resolving conflict within the team to maintain a Positive & Productive environment between team member.

\* feed back Delivery: providing constructive peed back to mentors and trainers and receiving beed Back postering a cultured of tentinuous 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 amolytice of smoot bridge intowns, sive identified key were for enhancing my abilities in group discussions, team participation and leader ship.

Jo improve my contributions in group discussions, I gim to actively listen to others, ask insight ful questions and share my opinions, perspectives clearly & effectively. As a team leader, 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 tasking initiative creating a positive team environment and effectively coordinating team activities. I through these measure, I am comitted to continuous growth and execulence 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 digital technologies of power

- Data Connectivity: rown BI Connects to a wide covary of data sowns, including data bases, Cloud sorville and web Aprils. This technology allows live connection to data sourly, enabling neal time data analysis without importing data into power BI.
- 2) Data transformation and modeling:
  Power away editor enables wers to clean
  transform and shape also through a war
  priendly interfale power BI Provides
  capabilitis for breating relationship and
  different data tables calcuation Column to
  using DAR.
- 3) Data visualization: Users can Guate interactive dashboard with a wide range of visualization such as trailer, graphs, tables. Thus can be constanted and tailoud for customized and tailoud needs.
- 4) Natural Languages prolessing (NLB): 05
  A feature enables users to ask questions about the data using natural language and power BI will generate Visualizations based on the aueries. This helps users interfale with data in a more initive way.