

Objective of the Activity Done: Introduction to PowerBi, Data Analytics.

Detailed Report: Agenda of data analytics includes understanding the fundamentals of Power Bi and the importance of data analytics in business decision-making.

- Attended an orientation session on the internship objectives and deliverables.
- Completed introductory, key features, and capabilities.
- Learned about the various types of data sources that can be connected to power Bi
- It developed a foundational understanding of power bi.
- Connected to different data sources and performed basic data cleaning.
- Created a simple report showcasing basic visualizations such as bar charts and line graphs.
- Participated in a workshop on basic data cleaning and transformation techniques.

WEEKLY REPORT

WEEK - 2 (From Dt 8/7/24 to Dt 12/7/24....)

Objective of the Activity Done: Data Importing and Modelling

Detailed Report: This week dedicated to mastering data importing and modelling within Power Bi

- Explored different data connectors available in Power Bi, such as Excel, SQL databases and online services.
- Learning about the ETL (Extract, Transform, Load) process within Power Bi.
- Practised data modelling techniques, including creating relationships between tables, using DAX (Data Analysis Expressions) functions, and designing calculated columns.
- Successfully imported datasets from multiple sources into Power Bi.
- Built a robust data model with well-defined relationships.
- Used DAX to create calculated columns and measures for enhanced analysis.

WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

### Data Visualization Techniques

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

- Studied various visualizations options available in Power Bi , including advanced charts, maps, and custom visuals.
- Participated in a hands on session to design interactive dashboards with slicers, filters , and drill - throughs.
- Learned best practices for choosing appropriate visualizations for different data types and insights.
- Designed a comprehensive dashboard featuring key metrics using a mix of visuals .
- Implemented interactivity through slicers and filters to allow users to explore the data dynamically .
- Presented the dashboards to peers to feedback.

## WEEKLY REPORT

WEEK - 4 (From 12/7/24 to 26/7/24)

Objective of the Activity Done:

Detailed Report:

Advanced data analysis with DAX

This week was dedicated to depending our understanding of DAX for advanced data analysis.

- Completed advanced DAX training modules, covering topics such as time intelligence, advanced filtering, and context management.
- Worked on a case study that required creating complex measures to calculate year-over-year growth and rolling averages.
- Collaborated with peers to troubleshoot DAX-related issues in our data models.
- Developed proficiency in writing complex DAX expressions.
- Applied time intelligence functions to analyze trends over time.
- Improved the accuracy and efficiency of data models using advanced DAX.

WEEKLY REPORT

WEEK - 5 (From 29/7/24 to 03/8/24....)

Objective of the Activity Done:

Real-world case study : Sales Analysis

Detailed Report:

The focus this week was on applying Power BI skills to a real-world sales analytics case study.

- Received a dataset representing sales data from a fictional company.
- Defined key performance indicators such as sales growth, customer acquisition and product performance.
- Built a sales dashboard to visualize the KPIs and identify trends, outliers and areas for improvement.
- Created a comprehensive sales dashboard that highlighted crucial business insights.
- Used data story telling techniques to communicate findings effectively.
- Received positive feedback from mentors on the practical application of power bi skills.

WEEKLY REPORT

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

Objective of the Activity Done: Report optimization and performance tuning

Detailed Report: This week focused on optimizing Power BI reports for performance and scalability.

- Learned about Power BI report optimization techniques, including data reduction, efficient use of DAX, and query optimization.
- Implemented incremental data refresh to improve report load times.
- Explored best practices for managing large datasets and reducing memory usage.
- Optimized existing reports to load faster and handle larger datasets.
- Applied techniques to reduce the size of data models without losing critical information.

WEEKLY REPORT

WEEK - 1 (From 01/01/24 to 01/06/24)

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 dataset provided by Smart Internz, 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.

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.