WEEK-1(From Dt.31.1.24.....to Dt..5.1.11.24.....)

Objective of the Activity Done: Introduction to power BI 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 modules on power BI, including its interface, 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 visualiza-tions such as bar charts and line graphs
* participated in a workship 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 impotting and modeling.

Detailed Report:

This week dedicated to mastering data impotting and modeling within power BI explored different data connectors available in power BI, such as excel, SQL, database, and online services.

Learning about the ETL (extract, transform, load) process within power BI.

practiced data modeling techniques, including creating relationships between tables, using DAX (data analysis expressions) functions, and designing calculated columns

Successfully impotted datasets from multiple sources into power BI

Built a robust data model with well-defined relation-ships.

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 Actuvity Done:

Data visualization techniques

Detailed Report:

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

* studied various visualizations options available in power BI including 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 matrics using a mix of visuals.
* Implemented interactivity through slicers and filters to allow users to explore the data dynamically
* presented the dashboard to peers for feedback.

WEEKLY REPORT

WEEK-4 (From Dt..22.7.24..... To Dt....26.7.24.....)

Objective of the Activity Done:

Advanced data analysis with DAX

Detailed Report:

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 Dt..29/7/24..... To Dt.....2/8/24.....)

Objective of the Activity Done:

Real-world case study: Sales analytics

Detailed Report:

This week focused 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 (KPIs) such as sales growth, customer acquisition and product performance
* Built a sales dashboard to visualize the KPIs and identify trends, outliers, and areas for improvements
* Created a comprehensive sales dashboard that highlighted crucial business insights.
* Used data storytelling techniques to communicate findings effectively.
* Received positive feedback from mentor 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 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-7 (From Dt.....12/8/24..... to Dt.....16/8/24.....)

Objective of the Activity Done: project work - data analysis and visualization

Detailed Report: this week marked the beginning of the project phase

* started by defining the project scope, objectives and data, deliverables
* The project involved analyzing a dataset provided by smart interz, 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 eliminated with a presentation to the smart intern 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.