

WEEKLY REPORT

WEEK - 1 (From Dt. 1.2.21. to Dt. 5.2.21....)

Objective of the Activity Done:

What is data Analysis?

Detailed Report: In the first week learned about the definition, Agenda and steps to understand about data Analysis. Also discussed about the Problems and Solutions to analyse the data and analysed the data based on steps as:

- Comparing the data
- Putting the data in visual
- Breaking the data.

Also understood the concepts of tools in data Analysis 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 analysis is used or applied in various industries

like finance, retail, housing, Agriculture and companies like Uber use DA for growth.

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WEEK - 2 (From Dt. 17-7-24. to Dt 20-7-24.)

Objective of the Activity Done:

Data analysis Process and structure

Detailed Report: In the second week learned about the different process that is required in data analysis, data cleaning and processing the data in a detailed manner and also the types of DA into 4 categories like

- descriptive Analysis
- diagnostic Analysis
- Predictive Analysis
- Prescriptive Analysis

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

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WEEK - 3 (From Dt. 17-7-24.. to Dt. 24-7-24.)

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 tools in columns and rows with joint kind.

- Left outer (all from first, matchup 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 FTL tools in Power Query that is Extract transform load (FTL). Which helps in extracting the data and transforming also learned about the data view and the model view for data modelling to generate Reports and insights. also learned about the overhead borderline in the process of Analysis in BI. researched about tables as an ETL Tool.

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WEEK - 4 (From Dt. 28/7/24 to Dt. 28/7/24.)

Objective of the Activity Done:

Data Analysis expression (DAX)

Detailed Report: In the fourth Week I learned about the concept of DAX (Data Analysis expression) and filter in DAX.

Different dax functions :

- Aggregate function → isblank, isnumber, istext
- Test function → min, max, Average, Sum -
- Data function → lower, upper Replace.
- Logical function → data, data Add, datadiff
- Counting function → and, or, not if .
- Information function → count 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 after preparing for the assessment test we gave assessment test on all the topics we learned.

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WEEK - 5 (From Dec 17/24.. to Dec 21/24.)

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 insight across the organization.

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WEEK - 6 (From Dt. 12.2.4. to Dt. 19.2.4.)

Objective of the Activity Done: Best Practices and Industry Applications.

Detailed Report:

In the sixth 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 session 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.

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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:

The week marked the beginning of the Project Phase.

- Started by defining the Project Scope, objectives and deliverables.
- The Project involved analysing a dataset provided by Smart Analytics, 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.

Objective of the Activity Done: Project-work - Finalization
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 Interz 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.