

WEEKLY REPORT

WEEK - 1 (From Dt. 6.3.24... to Dt. 13.3.24.....)

Objective of the Activity Done: What is data Analytics? And process involved?

Detailed Report: In the first week learned about the definition, Agenda and steps to understand about data Analytics. 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 Analytics, which helps to store the data in efficient and secure manner

- SQL (Structured query language)
- No SQL

DA technologies like.

* data management * data visualization * predictive Model

We also learned about where this data Analytics is used or applied in various industries like finance, retail trading, Agriculture and companies like Uber use DA for growth

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WEEK - 2 (From Dt. 15.7.24. to Dt. 20.7.24.)

Objective of the Activity Done:

Data Analytics process and structure

Detailed Report: In the second week learned about

the different process that is required in data analytics, data cleaning and processing the data in a detailed manner and also the types of DA into 4 categories like

- descriptive Analytics
- diagnostic Analytics
- predictive Analytics
- prescriptive Analytics

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 Analytics mainly teaches about DWH that is data warehousing and data bases

- collect
- integrate
- store
- Analyze
- distribute and react with ETL tools.

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WEEK - 3 (From Dt. 22.7.21, to Dt. 23.7.21)

Objective of the Activity Done:

Detailed Report: In the third week learned about the insights of data flow in power BI which viewed the model and data, merges and tables in columns and rows with joint kind.

- Left outer (all from first, matching 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 ETL tools in power query that is Extract transform load (ETL) . 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, onerous in the process of Analytics in BI. researched about tables as an ETL tool.

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WEEK - 4 (From Dt.21.3.24. to Dt.28.3.24.)

Objective of the Activity Done:

Data Analytics Expression (DAX)

Detailed Report:

In the fourth week I learned about the concept of DAX (Data Analysis Expression and filters in DAX)

Different Dax functions:

- Aggregate function → isblank, is number, is text
- text function → Min, Max, Average, Sum . . .
- Data function → lower, upper, Replace
- Logical function → data, data Add, data diff
- 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 we gave Assessment test on all the topics we learned.

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WEEK - 5 (From Dt. 05.01.24. to Dt. 16.01.24.)

Objective of the Activity Done:

Power BI Service and collaboration.

Detailed Report:

The fifth week covered the Power BI Service, Share and its collaborations 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 integrations with other Microsoft tools like Excel, Teams, and SharePoint, making it easier to collaborate and share insights across the organization.

Used data storytelling techniques to communicate findings effectively.

Received positive feedback from mentors on the practical application of Power BI skills.

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WEEK - 6 (From Dt.17.08.23. to Dt. 17.09.23.)

Objective of the Activity Done:

Best practices and Industry applications

Detailed Report:

In the final 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 sessions also included case studies showcasing how companies use power BI for Business Intelligence, Sales analytics, financial reporting, and operational efficiency. The week wrapped up with an overload of the upcoming project work.

Applied techniques to reduce the size of data models without losing critical information.

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WEEK-7 (From Dt...19-08-24.....to Dt...23-08-24.....)

Objective of the Activity Done:

Project work data analysis & visualization

Detailed Report:

The seventh week marked the beginning of the project phase.

We started by defining the project scope, objectives and deliverables.

The project involved analyzing a dataset provided by Smart Inteq, 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.

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WEEK-8 (From Dt...26-08-24..... to Dt....31-08-24.....)

Objective of the Activity Done:

finalization and presentation.

Detailed Report:

In the final 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 be the Internship.