

WEEKLY REPORT

WEEK - 1 (From Dt. 8-7-24 to Dt. 13-7-24....)

Objective of the Activity Done:	What is data Analytics?
Detailed Report:	The process involved in data Analytics In the first 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: <ul style="list-style-type: none">- Comparing the data- Putting the data in visual- Breaking the data also understand the concept of tools in data Analytics, which helps to store the data in efficient and secure manner <ul style="list-style-type: none">- SQL (structured query language)- No SQL DA technologies like <ul style="list-style-type: none">• data management• data visualization• predictive model we also learned about where this data Analytics is used on 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:

Detailed Report: Data Analytics process and structure in the second week learned about the different processes that is required in data Analytics, data cleaning and processing the data in a detailed manner and also the data type 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 ware housing and data bases

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

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WEEK - 3 (From Dt 22-7-24. to Dt 27-7-24)

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 merge and tables in columns and source 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 help in extracting the data and transforming also learned about the data view and the model view for data modelling to generate report and insights. also learned about the overhead ordering in the process of Analysis in BI. researched about as an ETL tool.

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WEEK - 4 (From Dt. 29/7/24 to Dt. 3/8/24...)

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 → is blank, is number, is text
- Text function → min, max, Average, sum....
- Date function → Lower, upper, Replace
- Logical function → Date, date, 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. After preparing for the assessment test we gave assessment test on all the topics we learned.

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

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 insights across the organization.

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

Objective of the Activity Done: Data Analysis and 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 India, drawing 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-7 (From Dt...19.....08.24..... to Dt....24.....08.24.....)

Objective of the Activity Done:

Detailed Report:

project work data analysis & visualization. The seventh week marked the beginning of the project phase. we started by defining the project scope, objective and deliverables.

The project involved analysing a dataset provided by smart. analysing a dataset provided by smart. Intern. cleaning and transforming. The data, and building a data model

our team focus focused on identifying key matrices, 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 this final week, we completed the project by refining our report 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 interns form, where we showed 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.