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 discard about the problem 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 understand the concept of tools in data Analytic, which helps to store the data in efficient and secure manner

— SQL (structured Query Language)

— NO SQL

DA technologies like

• data management data visulization

• Predictive model

we also learned about where this data Analytics is used on applied is various industries Like finance, retail bading Agrint hue and Companies like where DA for growth.

Objective of the Activity Done: Data. Analytics process and structure in the second week learned about the different

Detailed Report: Process 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 solution with power B. in Action which gives visible insights and Sales force forecasting also about the Architecture of the B. which tells us about the structure of the data Analytics. mainly teache also DWH that is data wate housing and data bases

- Collect - integrate - Store - Analyse
- Distribute and react with ETL tools

Objective of the Activity Done: Data visulization Techniques

Detailed Report: In the third week, the emphasis was no data visualization techniques using power BI

we explored various types of charts, graphs and maps. that can be created in power BI to visualize data insights

The sessions. includes best. practices for selecting the right vis.valization based on the the type. of data and the message we want to convey .we also .learned about customizing visual element, using themes, and enhacing reput with interctive features like sliceas and dill-throughs

Objective of the Activity Done: Advanced Analytics and DAX

Detailed Report: week four delved into advanced analytics and data Analysies expression (DAX) in pow BI

we learned how to create calculated columns, measures, and custom tables using DAX. the training covered complex DAX function such as time intelligence filtering, and aggregation

we also explored advanced analytical techniques like trend analysis, forecasting, and what if scenarios

The week ended with excercises to build dynamic reports using DAX - driven insights

Objective of the Activity Done: Power BI service and collaboration

Detailed Report: The fifth week covered the power BI service and its collaborations features

we learned how to publish reports to the Power BI services, 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 integra -tions with other microsoft tools like excel, Teams and Share point making it easier to collabrate and share insights across the organization.

WEEKLY REPORT

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

Objective of the Activity Done: Best Practices and Industry application

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, eahancing report performance, and maintaing data governance

The sessional also included case studies showcasing how Companies use power BI for Business intelligence,

Series analysies, financial reporting, and operational efficiency the week wrapped up with an overview of the upcoming project work

Objective of the Activity Done:

Project work - data analysis and visualization

Detailed Report:

The seventh week marked the begining of the project phase

We started by defining the project scope, objectives, and deliverable

The project involved analysing a data set provided by smart intering. cleaning and transforming the data, and building a data model.

Our team focused on identifying key matries, trends and patterns that could drive business decisions.

The intal reports and dashboards where created to visulize these insights using the skills and techniques learned over the past six weeks

Objective of the Activity Done: finalisation and Presentation

Detailed Report:

In the final week, we completed the project by defining 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 Interns team, where we showcased our findings explained the methodologies used, and demonstrated how to the insights could be applied to solve real business problems.

The project was well received marking a successful conclusion to be the intership