Objective of the Activity Done: Introduction to Data Analytics and power BI

Detailed Report: In the first week, we were introduced to the fundamentals of data analytics, emphasizing the role of data-driven decision-making in modern businesses. The sessions conveyed the basics of data analysis. Different types of data, and the important of data visualitation

we also explored power BI understanding its interface, features, and how it integrates with other microsoft products

The week conducted with a hands-on session on loading and transforming data in power BI.

WEEK – 2 (From Dt. 8/7/24. to Dt. 12/7/24)

Objective of the Activity Done: Data transformation and modeling

Detailed Report: The second week focused on data transformation and modeling within power BI

we learned to clean, reshape, and prepare data using power Query editor. the training covered essential functions like filtering, merging, and appending datasets.

Additionally, we were introduced to data modeling concepts such as relationship, cardinality, and data hierarchies.

The practial sessions helped reinforces these concepts by allowing us to create and manage data models effectively

Objective of the Activity Done: Data visulization Techniques

Detailed Report: In the third week, the emphasis was on data visualization techniques using power BI

we explored various type of charts graphs, and map that can be created in power BI to visualization insights

The sessions included best practices for selecting the right visualization based on the type of data and the message we want to convey we also learned about customizing visual elements, using themes, and enchancing reports with interactive features like slicers and drill - throughs.

Objective of the Activity Done: Advanced Analytics and DAX

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

we learned how to create calculated columns, measures, and custom tables using DAX. The training convered complex DAX functions 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 exercises to build dynamic reports using DAX- driven insights.

WEEK – 5 (From Dt.20/7/24 to Dt.2/5/24.)

Objective of the Activity Done: power BI service and collaboration

Detailed Report: The fifth week convered the power BI service and its collobrations features.

we learned how to publish reports to the power BI serivee, share dashboards and collaborate with team member in real time. The session. emphasized data security, row-level security (RIS), and managing workspace

we also explored power BI's integrations with other microsoft tool. like Excel, Teams and share point, making it easier to collaborate and share insight across the organitation.

Objective of the Activity Done:

Best practise and industry application

Detailed Report:

In the final week of internalship classes, we focussed on best practices in data analytics and realworld application of power BI across various industries

we discussed key strategies for optimizing data models, enchancing report performance, and maintaining data goverance

The sessions also include case studies showcasing how companies use powerBI for Business intelligence, sales analysis, financial reporting and operational efficiency. The week wrapped up with an overviews of the upcoming project work

WEEKLY REPORT

WEEK-7 (From Dt......12....8../.24.............. to Dt......16../9/.24...............)

Objective of the Activity Done:

visaalization
Project work data analysis and

Detailed Report: The seventh eueck marked the begining of the project phase
euu started by defining the project -scope, objectives and deliverables.

The project involved analyzing a dataset provided by smartintern3 cleaning and transforming the data, and building a datamodels

our team focused on identify-ing key matrics, trends and patterns that could drive business decisions

The infial reports and dashboards euere created to visualize thes insights, using the skill and techniques learned over the past six eueeks.

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 visualsappeal and usability of the dash boards by adding interactive elements and ensuring the data was accuriately represented. the week Eulminated with a presentation to the smart Intern3 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 euell recci-ved, making a successful conclusion to be the intervship.