## WEEK-1(From Dt. 3/4/24 to Dt. 5/4/24 )

Objective of the Activity Done: Introduction to Power BI, Data Analytics
Detailed Report: Agenda of Data Analytics includes,
interoduction to data analytics and Business
intelligence, Business problem and solution, PowerBI
in Action, Introduction to Power BI, Power BI
Architecture, Data to insights flow in Power BI.
Explained about the data analytics, Data
Analytics tooks and technologies. Explanation
of data management and data visualization
and the data analytics application. Business
Intelligence and its Tools. Types of Business
Analytics. Explained how to download Power BI.
Explained about différences between Business
Analytics and Data Analytics and Introduction to
Power BI and Power BI Architecture. Explained
how to load data and clean data, Guation
of visualization and types of visualization. Power BI
visualizes the graphs dashboards and pie charts.
It facilitates reports etc

Objective of the Activity Done:
Objective of the Activity Done: Data Importing and Modeling.  Detailed Report:  Detailed Report:
Detailed Report: Data modeling is a process of Creating a
Conceptual representation of data objects and their
relationships between tables by using the frimary key.
→ Data insights flow in Power BI: Data Sources, data
view and model view for data modelling.
-> Explored different data Connectors available in Power BI,
Such as Excel, SQL databases and Online Services.
-> Learned about the ETL (Extract, Transfolm, Load)
process within Power BI.
-> We learned how to dear, reshape and prepare
data ung power Query editor.
-> The training overed essential functions like
filtering, merging and appending data sets. Addition
- ally we were introduced to data modelling
Concepts such as velationships, Cardinality and
data lieuarchies.
-> Peracticed data modeling techniques, including
Creating relationships between tables using DAX
(Data Analysis Expression) functions and designing
Calculated Columns.

Objective of the Actuvity Done:  Data Visualization Using Power BI  Detailed Report:
Datailed Banart
Detailed Report:  > Learned about various reisualization
Options available in Power BI, including Power
charts, advanced charts, maps and auston
visuals.
-> Studied choosing appropriate remalizations
for different data types and insights.
-> The tools present in the power BI desktop
are remove Columns, reduce rows, sorting,
Split Column, group by, suplace Value,
teranspose, reverse vous, Count rous, Rename, etc.
-> There are two ways for analyzing the data.
They are Visualization and Statistical
-> In the third week, the emphasis was on
data visualization techniques using Power BI.
-> kle enployed various types of charles, graphs
and maps that Can be Created in Power BI
to visualize data insights. We also learned
about Custonizing visual elements. The sessions
included best practices for selecting the sight
visualizations based on the type of data

## WEEKLY REPORT WEEK-4 (From Dt. 26 7 24 To Dt. 26 7 24 )

Objective of the Activity Done:
Objective of the Activity Done:  Advanced Data Analysis with DAX.  Detailed Report:
uns week was dedicated to dispensing
Our undenstanding of DAX for advanced data analysis.
-> Completed advanced DAX training modules Covering
topics such as time intelligence, advanced filtering,
and Cordent management
> blocked on a Case study that required Greating
Complex measures to Calculate year-over-year growth
and volling averages.
-> Collaborated with peans to troubleshoot DAX-related
issues in our data models.
-> Developed proficiency in writing Complex DAX
enpressions.
-> Applied time intelligence functions to analyze
trends over line.
> Improved the accuracy and efficiency of data
models using advanced DAX.

Objective of the Activity Done: Functions and Power BI Service  Detailed Report:
Detailed Report: The functions of Power BI includes All,
All NO BLANK Row, Calculate, Filter, Match By, Order
by and Calculate table
Sales analytics: It provides valuable insights into
austonier behavior, sales performance, and areas
where processes can be improved.
-> Defined key performance indicators (KPIs) such
as sales growth, Customer acquisition, and
product performance
-> Built a sales dashboard to virualize the KPIs
and identify terends, Outliers, and areas for
improvement.
-> Greated a Comprehensive Sales dashboard that
highlighted Gucial business insights.
> Used data story telling techniques to Communic
-ate findings effectively
-> Received positive feedback from mentous on the
practical application of Power BI Skills.
- Finally the focus of this week was on applying
Paver BI skills to a real world sales analytics.

Objective of the Activity Done:  Report Optimization and Performance  Detailed Report:
Detailed Report:
Detailed Report: This week focused on Optimizing Power BI
reports for performance and scalability.
> Learned about Power BI report optimization
techniques, including data reduction, efficient
use of DAX, and query ofthisation.
- Implemented incremental data refresh to improve
report load times.
> Explored best practices for managing large data
- Sets and reducing memory usage.
-> This session also included Case studies show
Caring how Companies une Pouver BI for Business
Intelligence, Sales analysis, financial supposting
and operational efficiency
- Optimized existing reports to load faster and
handle larger data sets.
-> Applied techniques to reduce the size of
data models without loving Gitical information.
-> Improved the overall performance and user
enperience of power BI reports.

Objective of the Activity Done:
Objective of the Activity Done:  Detailed Report:  Data Analysis and Visualization.
and an
week was acaicaled to leasing how to
publish and share Power BI reports with stake-
- holders.
→ like started by defining the project scope,
Objectives and deliverable.
> The project involved analyzing a datased provided
by Smart Interns, cleaning and teransforming
the data, building a data model.
-> Published reports to the Power BI Service and
Configured scheduled refreshes.
-> Greated and shared an app in Power BI that
aggregates multiple reports into a single, easy-to-
access package for Stakeholders
-> Successfully published reports to the Power BI Service
and shared them with the internship team
-> Configured role-based security to Control access
to sensitive data
-> Received feedback on the accessibility and wability
of the published reports.

Objective of the Activity Done:  Finalization of Roject work  Detailed Report:  Finalization and Resentation.
Detailed Report:
The hard week was located as Constitues a Captione
The final week was focused on Completing a Capstone
project and presenting it to the internship
supervisous.
-> bloubed on a final project that involved analyzing
a Complex data set and presenting actionable
insights to a mock client
-> Developed a Comprehensive Power BI report that
included data enfloration, advanced revualizations,
and key recommendations.
-> Presented the final report to the internship
Superuisons, showCasing the skills and knowledge
gained throughout the internship.
-> Successfully Completed the Capstone project, demonstra
- ting a strong understanding of data analytics
- Using Power BI
-> Received positive feedback on the quality of analysis
and presentation skills.
-> Concluded the internship with a deepen appreciation
fou data analytics and Power BI as a business
intellègence tool.