WEEKLY REPORT

WEEK-1(From Dt. 3/07/24 ...to Dt. 5/07/24 ...)

Objective of the Activity Done: To Create Power BI, visualization

Detailed Report: Learned about Data collection, Data cleaning, Data analysis, Data visualization, Interpretation, Agenda, Business analytics., Retention, Types of analytics, Data analytics process, DA tools, How to download power BI

Agenda: Introduction to data analytics and Business Intelligence

→ Business problem and solution

- power BI in action
- Introduction to power BI
- power BI architecture
- Data to insights flow in power BI

Types of analytics: 1. Descriptive analysis
2. Diagnostic analytics
3. predictive analytics
4. prescriptive analytics

WEEKLY REPORT

WEEK-2 (From Dt. 8/7/24 ..... to Dt. 12/07/24 .....)

Objective of the Activity Done: To create features of PowerBI and components

Detailed Report: Learned about features of PowerBI,

PowerBI components: → Data view, model view for data modelling

→ Power Pivot

→ Power queries

→ POWER BI desktop

→ Power view

→ Power BI services

Power BI in action, Architecture of power BI, Data to insights flow in PowerBI, power query, Transformation operations, The tools present in PowerBI Desktop; Remove columns, Reduce rows, Sorting, Split column, Group by, Data type Refresh preview, Replace value, Transpose, Reverse rows, Count rows, Detect the datatype, Rename; fill, move, format.

There are two ways for analyse the data

1. visualization & → graphical representation of data
2. statistically.

WEEKLY REPORT

WEEK-3 (From Dt. 15/07/24 ..... to Dt. 19/07/24 .....)

Objective of the Actuvity Done: To create dashboards and Reports

Detailed Report: Learned about Add columns is uses to add the column to the already existing data.

*Conditional Column.

→ Add column fuom examples. Enter Sample values to add a column.

→ If we want to analyse the data in statistical method then we use

1. Dash boards - Static / dynamic
2. Repoat - Static
3. Storey board.

Analysis of data is domein two ways i.e., Statistical & data visualization.

Data Stcuuting, Data visualization.

→ Dashboards are dynamic in nature

→ Dashboards are interactive in nature

→ Reports are not interactive in nature

→ Storey board is same as the PPt.

WEEKLY REPORT

WEEK-4 (From Dt...22/07/24..... To Dt...26/07/24.....)

Objective of the Activity Done: To Create DAX Functions

Detailed Report: Learned about DAX, DAX functions.

DAX : Data analysis · expressions.

• Formula expression Language used in analysis Services - Power BI excel.

• Dimensional and measure - Dimension - Categorical - String, characters measures - numerical values - int, float, double

DAX Function: 1. Aggregate function.

2, Text function.

3, Data functions

4, Logical functions

5, Counting functions

6, Information functions

New columns, Functions { All, All No Blank row, calculate, Filter, match By, order by, Calculate Table).

WEEKLY REPORT

WEEK-5 (From Dt. 29.07.24 To Dt. 2.08.24)

Objective of the Activity Done: Project Orientation classes.

Detailed Report:

In this fifth week of the internship we have assigned team projects to create a Web applications on the given reference datasets.

Our team project title is.

Student Academic Performance: A Comprehensive analysis on student data. we have created various visualization based on the data We have collections and the a used them to create dashboard, Category and Report.

We have developed, Storey html code for the, web Integration there use provided the dashboard and Report.

WEEKLY REPORT

WEEK-6 (From Dt...5/08/24..... to Dt...9/08/24.....)

Objective of the Activity Done: Project completion & certificate Generation.

Detailed Report:

In this Sixthweek of the short term Internship In Power BI Smart bridge. we have done our projects. Our team project title is Student Academic Performance A comprehensive analysis on student data. We have submitted our projects files in the github as per the instructions given in the mentoring sessions. After successfully completed our project. we have got a certificate from Smart intern3 as a part of our short - term internship.

WEEKLY REPORT

WEEK-7 (From Dt..12/08/24..... to Dt....16/08/24.....)

Objective of the Activity Done:

Detailed Report:

How to Create a Dash board:

This is the dashboard here we combine the all visualizations related to our project the following are The visualizations.

Pie chart:

Visualization: here the fiorst visual is piechart we can select the piechart from the visualization pan student data panel Appears on the right hand side here we can drag the information about our data here we took the data as count of students absence days by the attributes Semester & Section.

Stacked column chart:

Visualization: Here the second visual is Stacked column chart we can select the Stacked column chart from the visualization panel appears on the maximum number of the raised hands by using Grade ID

Objective of the Activity Done:

Detailed Report:

and Stage ID.

Donut:

Visualization: Here the Third visual is Donut chart we can select the Donut chart from the visualization panel appears on the minimum Number of discussions by using Section ID and Stage ID.

clustured column chart:

Visualization 4:- Here the fourth visual is clus-tured column chart we can select the cluster-ed column chart from the visualization is Count of parent answering survey by using relation and parent School satisfaction.

visualization - 5: clustered bar chart.

Here the fifth visual is clustured bar chart we can Select the clustured bar chart from the visualization. average of visited resources by Topic and Semester.