

**Objective of the Activity Done:**

To create Power BI, visualization

**Detailed Report:**

To create about Data collection,

Data cleaning, Data analysis, Data visualization

Interpretation, Agenda, Business analytics.

**Types of analytics:-**

1) Descriptive analysis

It explains about what happened.

2) Diagnostic analytics

It explains about why it happened.

3) Predictive analytics

It forecasts what might happen

4) Prescriptive analytics

It recommends an action based on the forecast.

**Agenda:** → Introduction to data analytics and business intelligence

- Business problem and solution
- power BI in action
- Introduction to power BI
- Data to insight flow in power BI.

Objective of the Activity Done:

Detailed Report:

To Create features of Power BI; components

Learned about features of power BI,  
Power BI 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 Power BI, Power query,  
Transformation operations, the tools present in

Power BI Desktop: Remove columns, Reduce rows,  
Sorting, split column, Group by, Data type

Refresh preview, Replace value, Transpose,  
Reverse rows, count rows, Detect the data type.

Rename, fill, move, format

There are two ways for analyze the data

1. Visualization & → graphical representation of data
2. Statistically.

WEEKLY REPORT

WEEK-3 (From Dt.....15/7/24.....to Dt.....19/7/24.....)

**Objective of the Activity Done:**

To create dashboards and Reports

**Detailed Report:**

Learned about dashboards, Reports  
and story board.

- Dashboards are dynamic in nature
- Dashboards are interactive in nature
- Reports are static in nature and are give the complete and detailed information
- Reports are not interactive in nature
- Storyboard is same as the ppt.

\* Conditional column:-

- Add column from examples
- Enter sample values to add a column.
- If we want to analyse the data in statistical method then we use
  1. Dashboard - static / dynamic
  2. Report - static
  3. Story board.

Analysis of data is done in two ways i.e,  
Statistical and data visualization

Data structuring :- It is also known as  
data modelling.

**WEEKLY REPORT**  
**WEEK-4 (From Dt.....28/7/24..... To Dt.....26/7/24.....)**

**Objective of the Activity Done:**

To create DAX functions

**Detailed Report:**

Learned about DAX, DAX functions.

DAX :- Data Analytics Expressions

• Formula Expression Language used in analysis

Service - power BI excel.

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

DAX functions:- → Aggregate function

2) Text function

3) Date functions

4) Logical functions

5) Counting function

6) Information functions

New column:- Creating a new column for the  
existing table - calculated column. Discount column  
 $>0$  and  $<0$  - create a conditional column.

New column function { all, all No Blank Row,  
calculate, filter, match by, order by, calculate  
Table } .

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WEEKLY REPORT  
WEEK-5 (From Dt. 29/7/24 To Dt. 2/8/24.....)

**Objective of the Activity Done:**

Project orientation classes

**Detailed Report:**

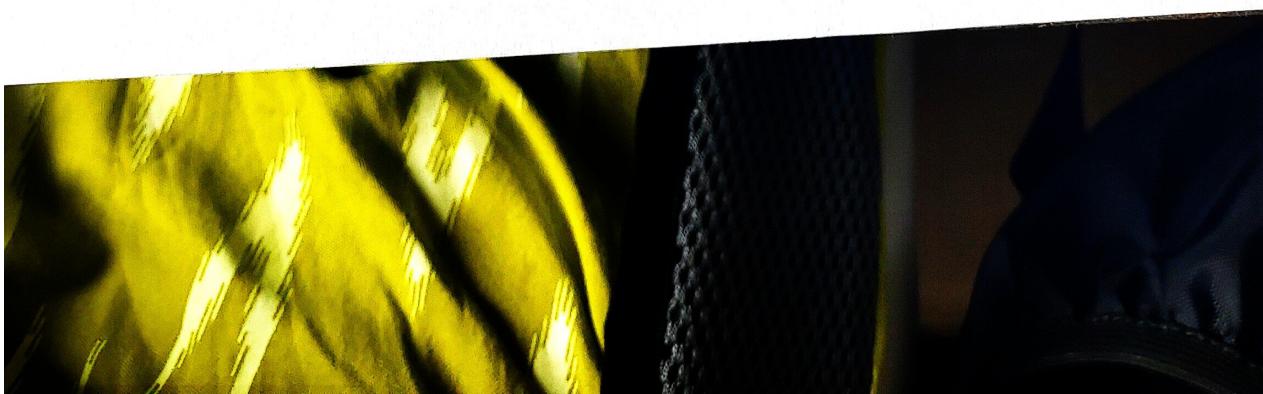
In this fifth week of the internship we have assigned team projects to create our web applications on the given reference data sets.

Our team project title is mapping and analyzing foreign tourist friends in India using power BI.

A comprehensive analysis on tourists data - we have created various visualizations based on the data we have collections and then used them to create dashboard, category and report.

We have developed, story HTML code for the web integration there use provided the dashboard and report.

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## WEEKLY REPORT

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

## Objective of the Activity Done:

Project completion &amp; certificate

## Detailed Report:

In this sixth week of the short team Internship In power BI smart bridge we have done our projects Our team project title is Mapping and Analyzing foreign Tourist Trends in india using power BI.

A comprehensive analysis on tourists data : we have submitted our projects files in the github as per the instruction given in the meeting sessions . After successfully completed our project . we have got a certificate from smart interning as a part of our short - team internship

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**WEEKLY REPORT**  
WEEK-7 (From Dt.....19.1.24..... to Dt.....16.2.24.....)

**Objective of the Activity Done:**

**Detailed Report:**

To Create the visualisations of power BI.

Step-1:- We have inserted the data

Step-2:- In that we have cleaned the data and loaded the data | In that cleaning processes that we cleared the duplicate rows and duplicate columns.

Step-3: In the first visualisations I have taken the count of top 10 lowest districts in a pie chart.

Step-4:- In the Second visualisation I have taken the maximum visitors in a month and I have drag right side for the editing for the title and effects

Step-5:- In the third visualisations I have taken the average visitors of 1st month in every year in a bar graph.

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

Objective of the Activity Done:

To create visual report of power BI

Detailed Report:

This is the dashboard here we combine the all visualisations related to the Mapping and analyzing Foreign Tourist Trends in India using Power BI.

The average visitors from the year 2016 - 2019 (151.51K) and 34 count of districts. We have combined all the data of foreigns and domestic visitors in a bar graph, pie chart, line graph etc. And we have given the title of tourism analysis profile in power BI.

The report analysis foreign and domestic visited data to India from 2016- 2019 the analysis shows a steady increase in both foreign and domestic visitors.

Domestic tourism remains dominant which significant to growth observed in 2018.