ADVANCE DATA VISULIZATION LAB ESE

Ms. Neerja Doshi
202130029
Batch F

EXP 1

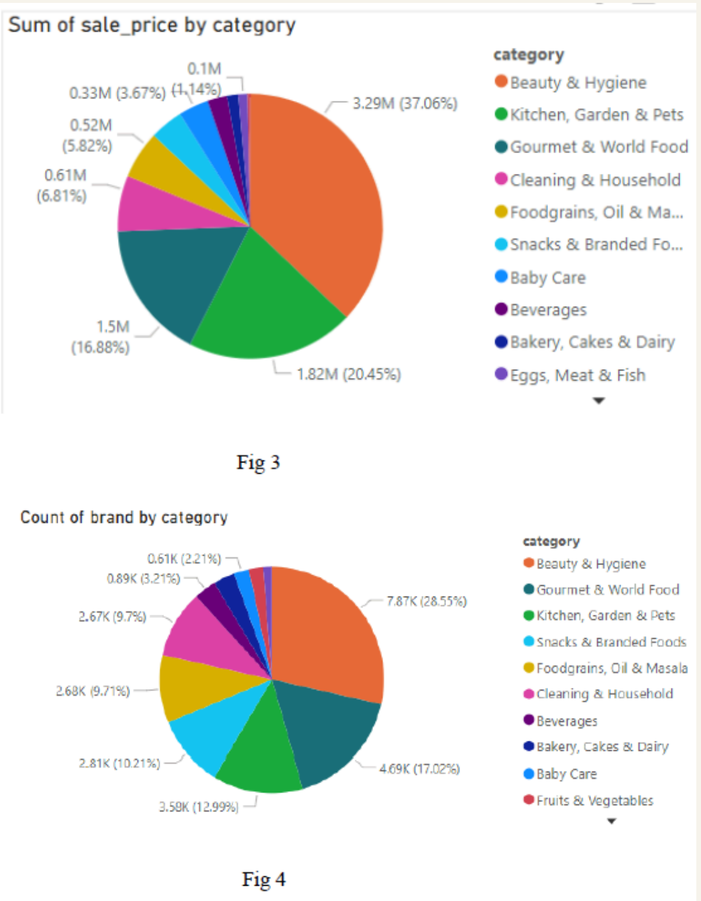
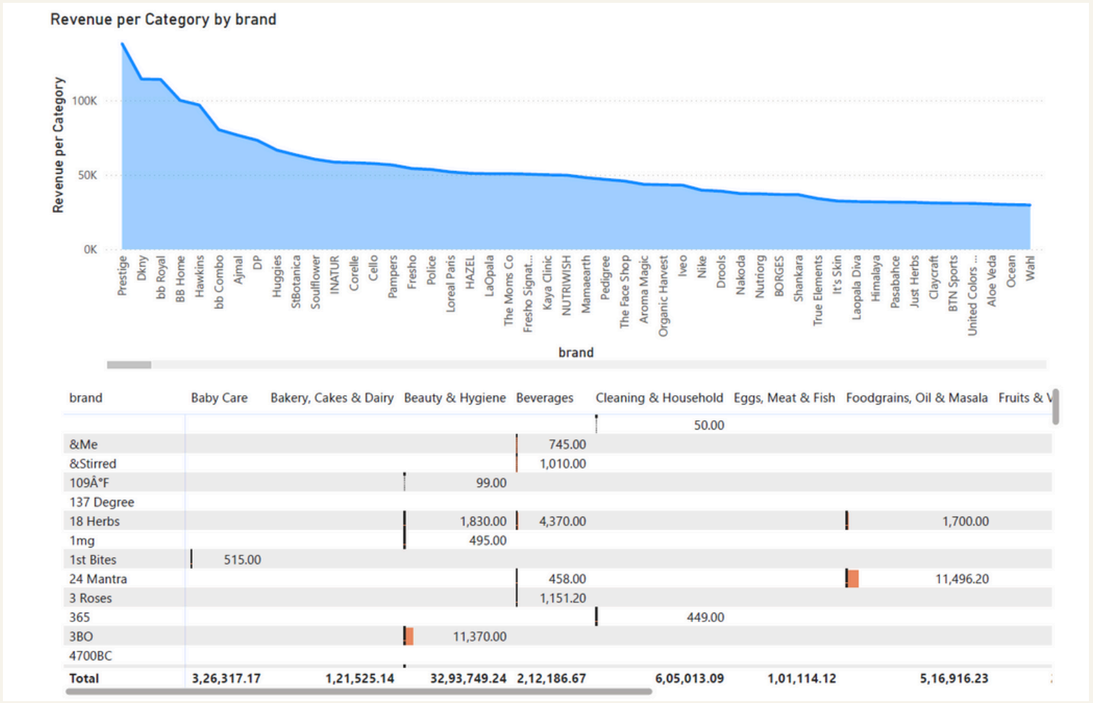
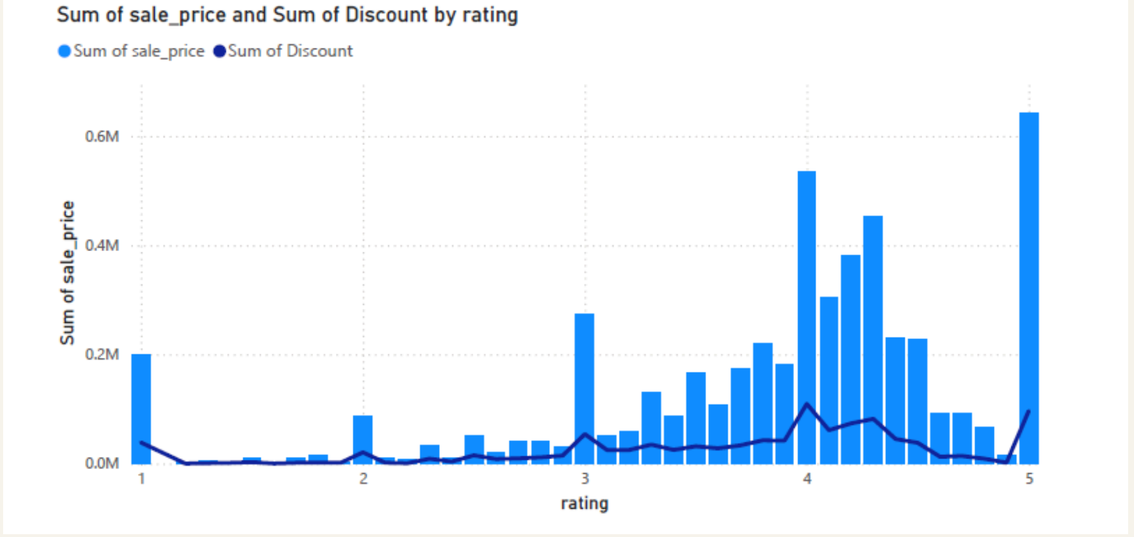


Fig 3

Fig 4



brand	Baby Care	Bakery, Cakes & Dairy	Beauty & Hygiene	Beverages	Cleaning & Household	Eggs, Meat & Fish	Foodgrains, Oil & Masala	Fruits & V
					50.00			
&Me				745.00				
&Stirred				1,010.00				
109Â°F			99.00					
137 Degree								
18 Herbs			1,830.00	4,370.00			1,700.00	
1mg			495.00					
1st Bites	515.00							
24 Mantra				458.00			11,496.20	
3 Roses				1,151.20				
365					449.00			
3BO			11,370.00					
4700BC								
Total	**3,26,317.17**	**1,21,525.14**	**32,93,749.24**	**2,12,186.67**	**6,05,013.09**	**1,01,114.12**	**5,16,916.23**	



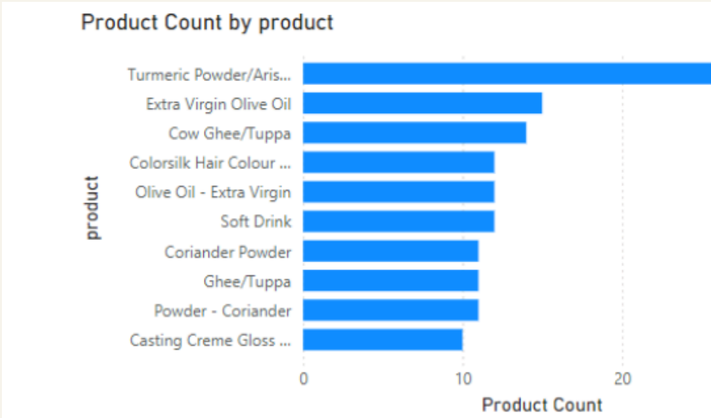
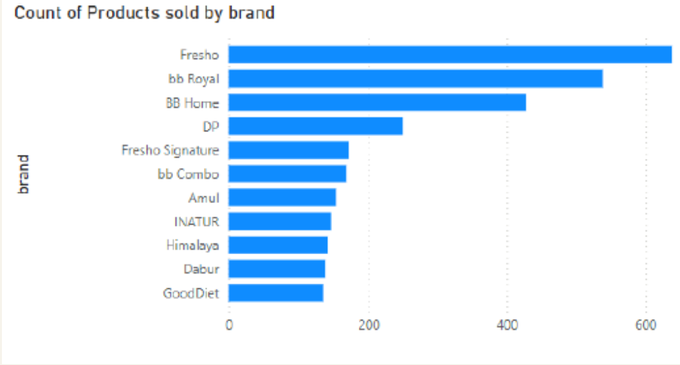
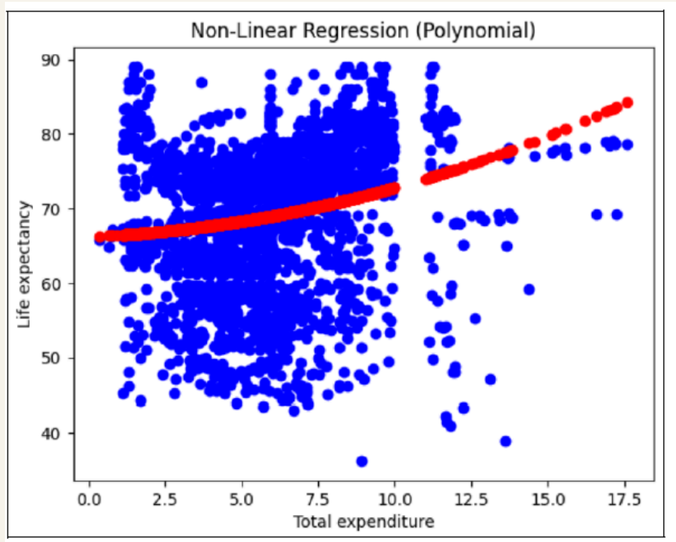


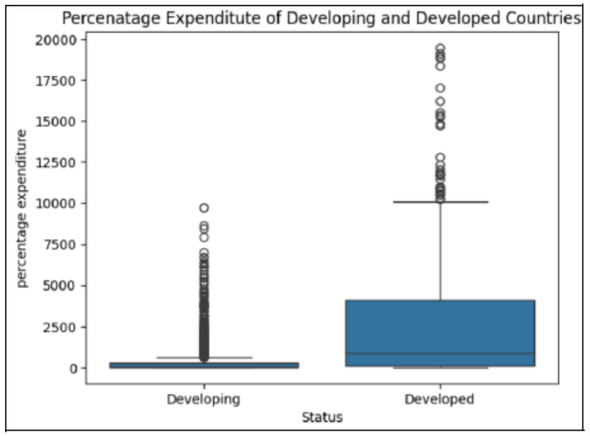
Fig 1.

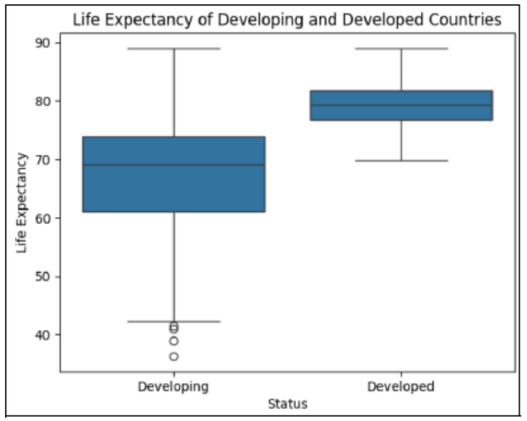


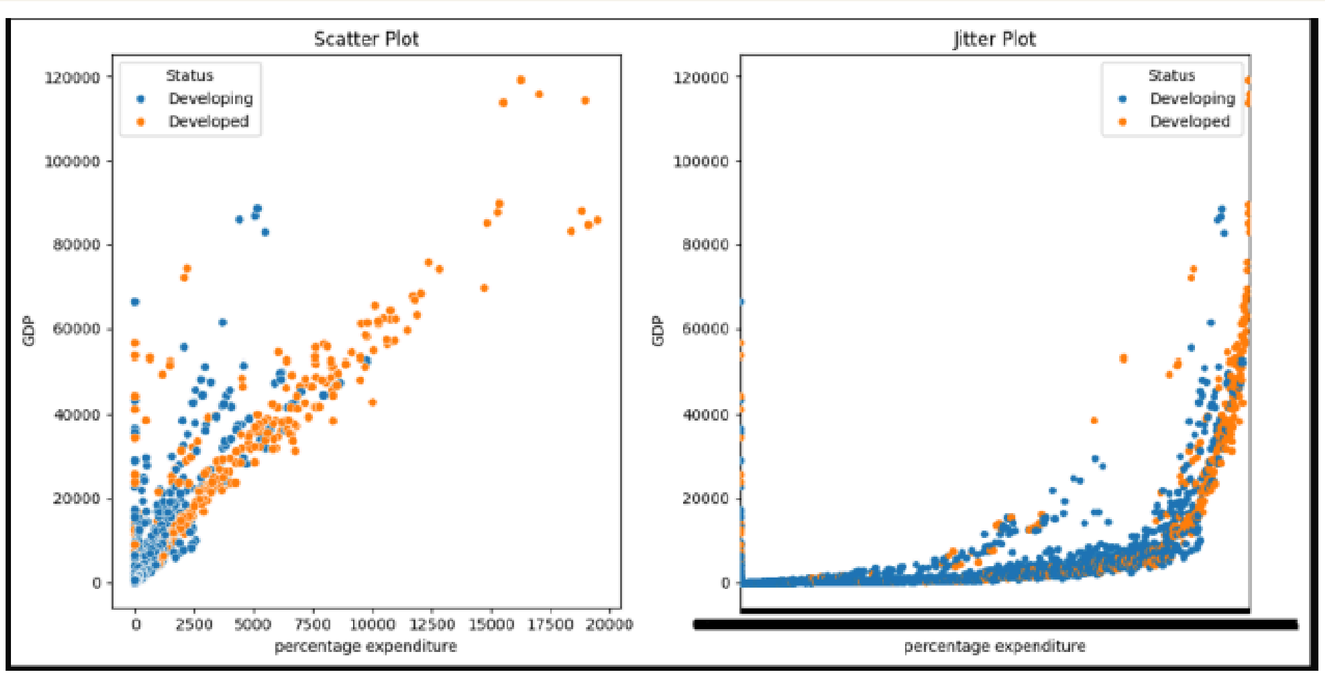
EXP 2

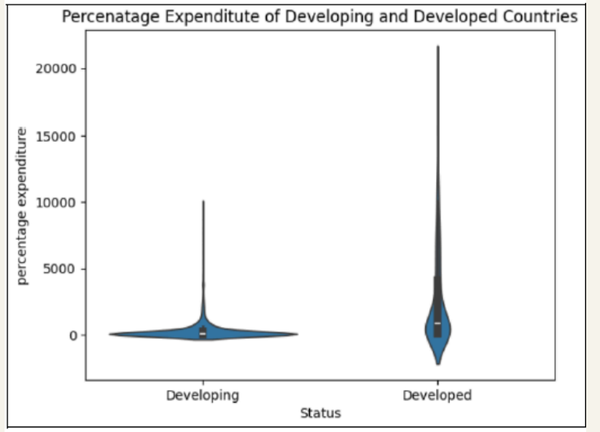

Non-Linear Regression (Polynomial)
Life expectancy
Total expenditure

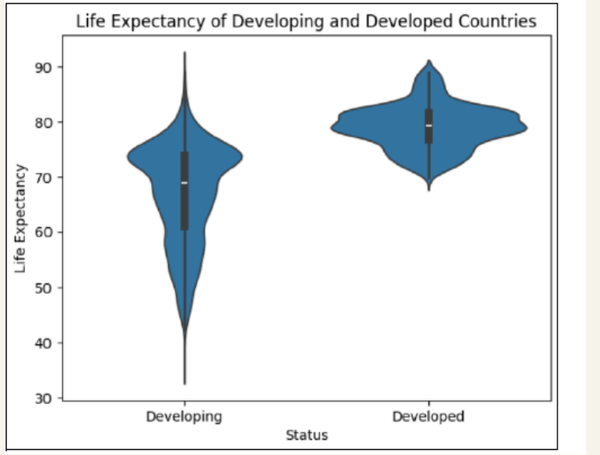
Country wise Life Expectancy over Years
Life expectancy
Year
Country
Zimbabwe
Country=Eritrea
Zimbabwe
Brunei Darussalam
Qatar


Percenatage Expenditute of Developing and Developed Countries
percentage expenditure
Developing
Developed
Status

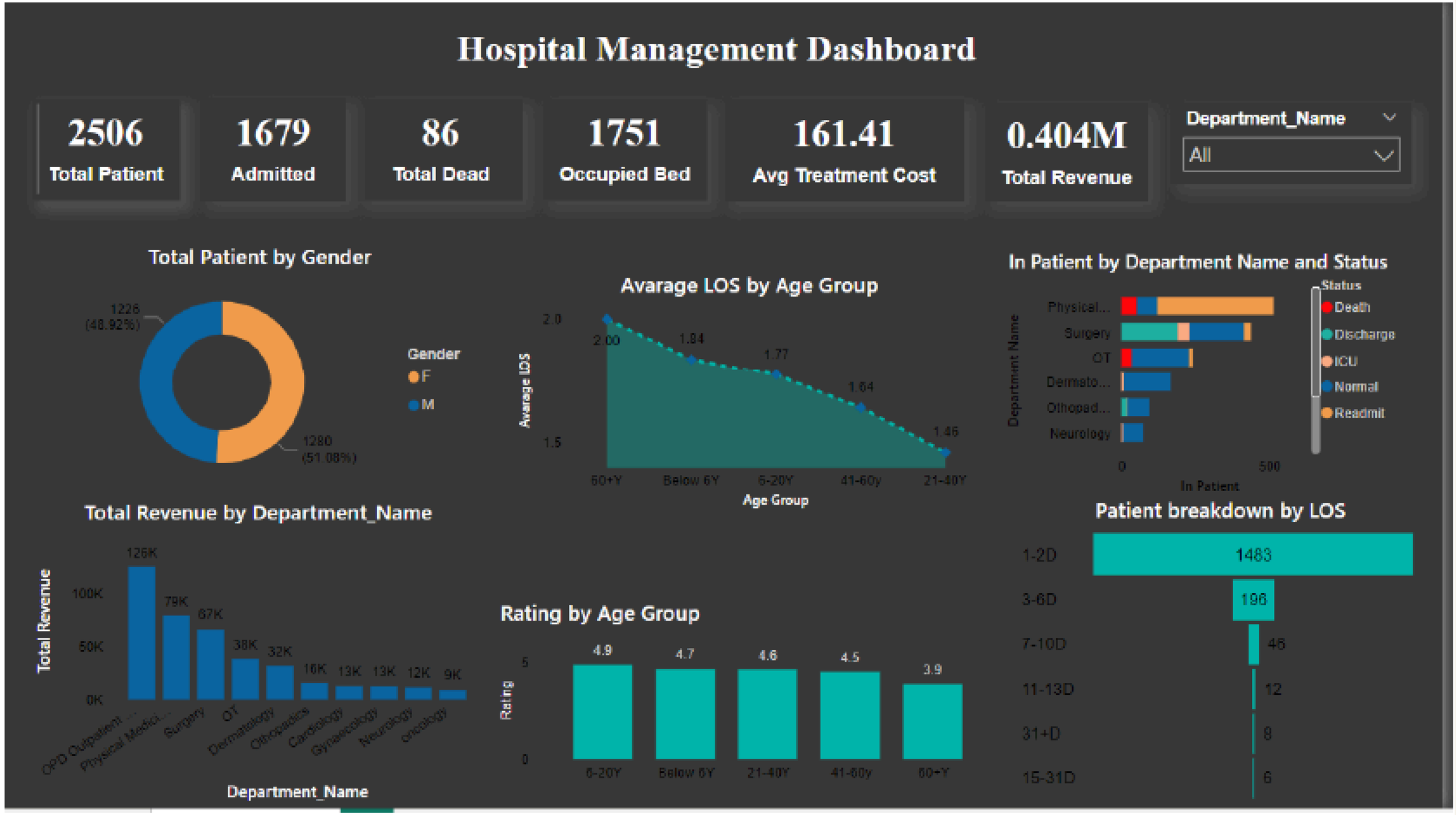

Life Expectancy of Developing and Developed Countries
Life Expectancy
Developing
Developed
Status


Scatter Plot
Jitter Plot
Status
Developing
Developed
GDP
percentage expenditure

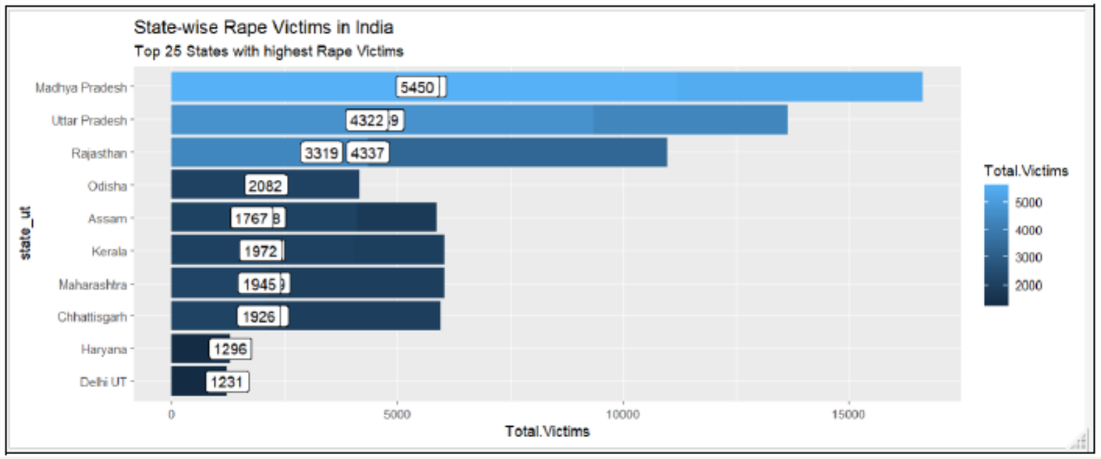

Percenatage Expenditute of Developing and Developed Countries
percentage expenditure
Developing
Developed
Status


Life Expectancy of Developing and Developed Countries
Life Expectancy
Developing
Developed
Status

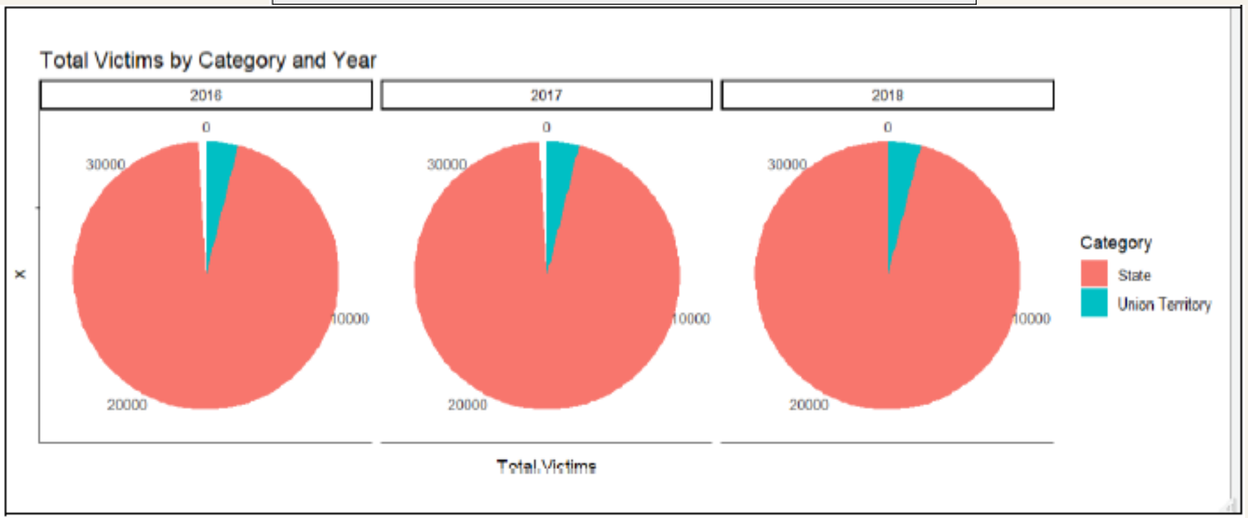
EXP 3

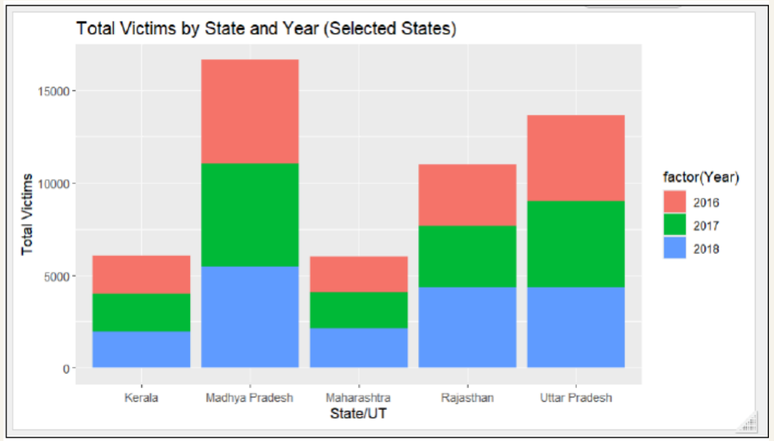

Hospital Management Dashboard
2506
Total Patient
1679
Admitted
86
Total Dead
1751
Occupied Bed
161.41
Avg Treatment Cost
0.404M
Total Revenue
Department_Name
All
Total Patient by Gender
1226 (48.92%)
1280 (51.08%)
Gender
F
M
Avarage LOS by Age Group
Avarage LOS
2.0
1.5
2.00
1.84
1.77
1.64
1.46
60+Y
Below 6Y
6-20Y
41-60y
21-40Y
Age Group
In Patient by Department Name and Status
Department Name
Physical...
Surgery
OT
Dermato...
Othopad...
Neurology
0
500
In Patient
Status
Death
Discharge
ICU
Normal
Readmit
Total Revenue by Department_Name
Total Revenue
126K
100K
50K
0K
79K
67K
38K
32K
16K
13K
13K
12K
9K
OPD Outpatient ...
Physical Medici...
Surgery
OT
Dermatology
Othopaedics
Cardiology
Gynaecology
Neurology
oncology
Department_Name
Rating by Age Group
Rating
5
0
4.9
4.7
4.6
4.5
3.9
6-20Y
Below 6Y
21-40Y
41-60y
60+Y
Patient breakdown by LOS
1-2D
1483
3-6D
196
7-10D
46
11-13D
12
31+D
8
15-31D
6

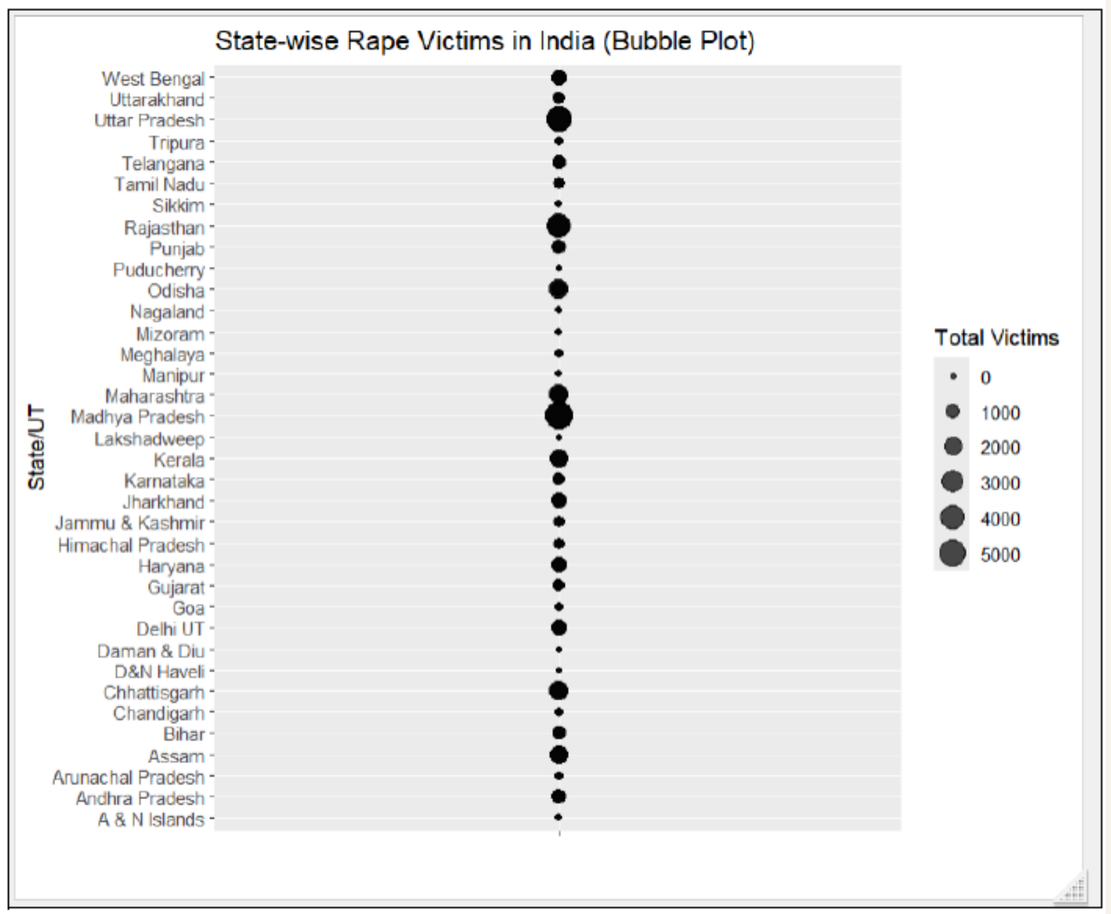
EXP 4


State-wise Rape Victims in India
Top 25 States with highest Rape Victims
Madhya Pradesh
Uttar Pradesh
Rajasthan
Odisha
Assam
Kerala
Maharashtra
Chhattisgarh
Haryana
Delhi UT
5450
4322
3319
4337
2082
1767
1972
1945
1926
1296
1231
state_ut
Total.Victims
0
5000
10000
15000
Total.Victims
5000
4000
3000
2000

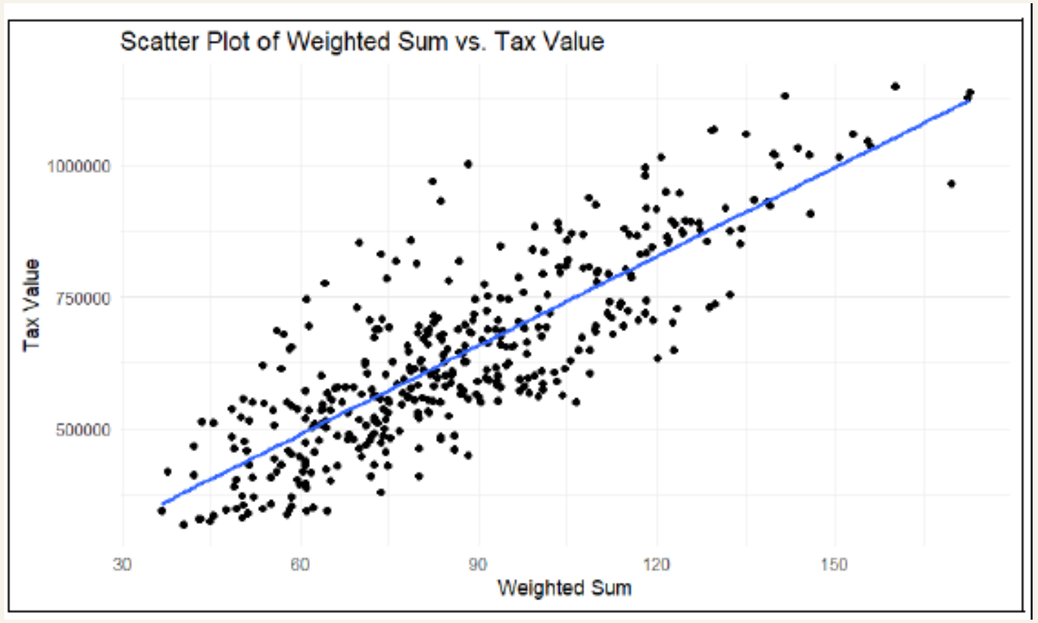
State-wise Rape Victims in India
10 States with Least Rape Victims
Lakshadweep
D&N Haveli
Puducherry
Daman & Diu
0
2
1
0
7
3
7
State UT
0
5
10
15
Total.Victims

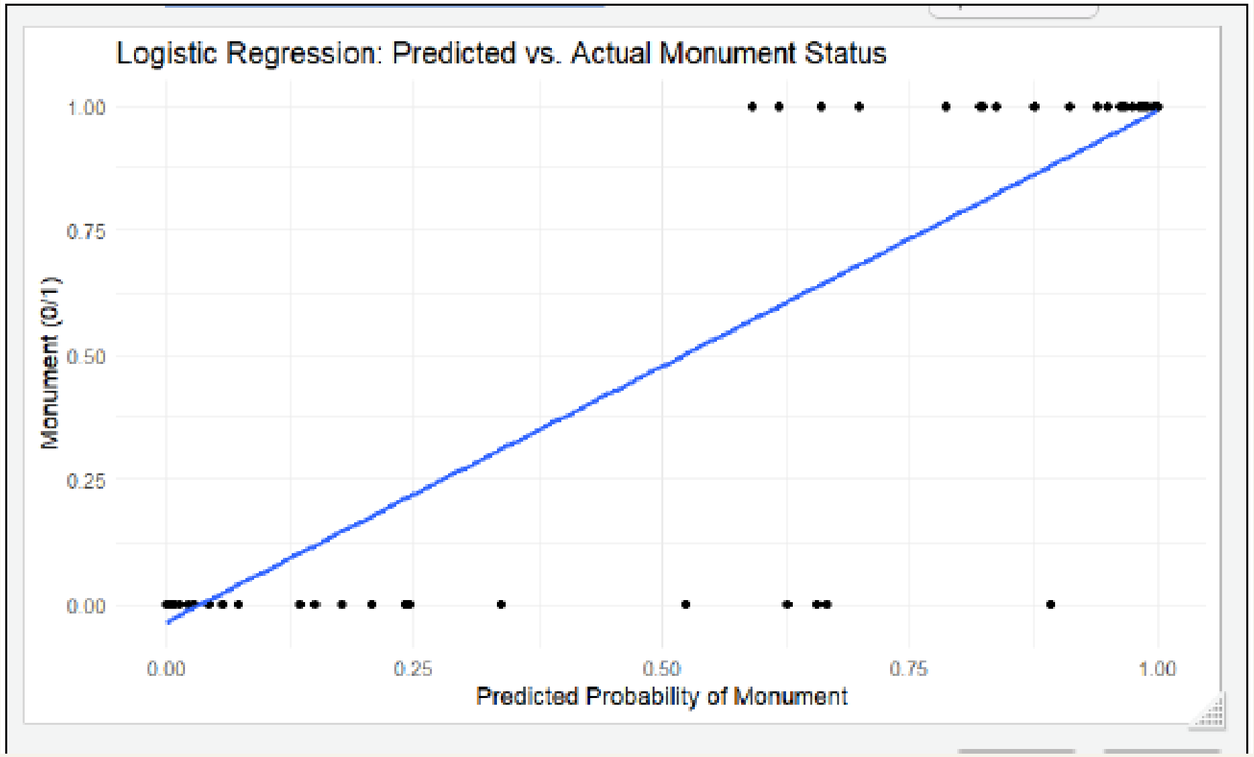

Total Victims by Category and Year
2016
2017
2018
0
30000
10000
20000
Total.Victims
Category
State
Union Territory

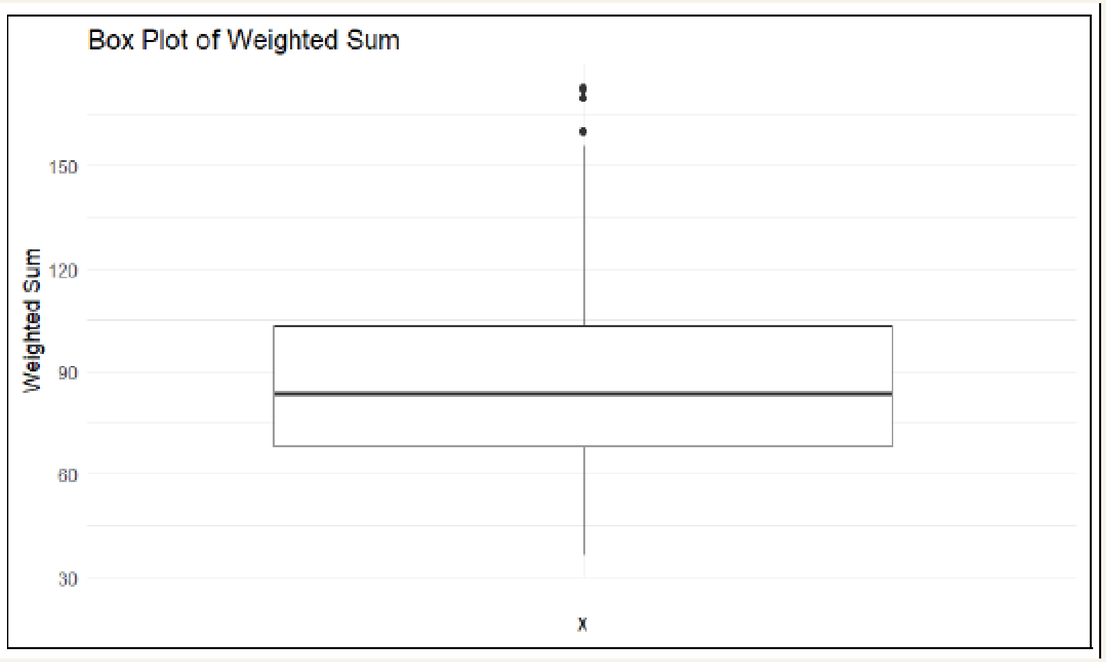

Total Victims by State and Year (Selected States)
15000
10000
5000
0
Total Victims
Kerala
Madhya Pradesh
Maharashtra
Rajasthan
Uttar Pradesh
State/UT
factor(Year)
2016
2017
2018

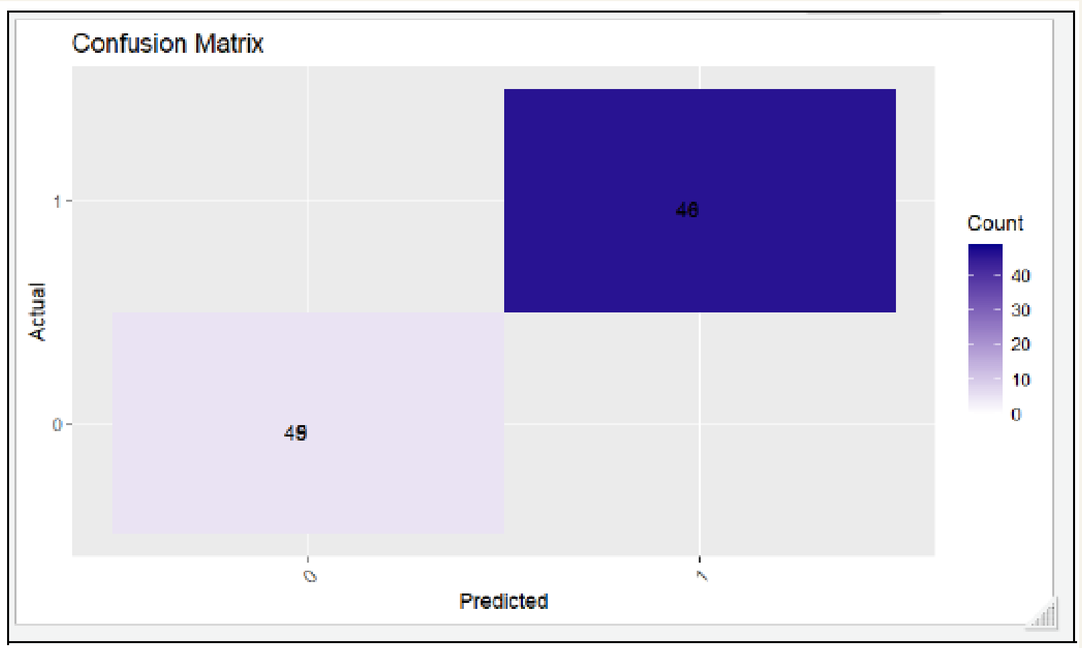

State-wise Rape Victims in India (Bubble Plot)
West Bengal
Uttarakhand
Uttar Pradesh
Tripura
Telangana
Tamil Nadu
Sikkim
Rajasthan
Punjab
Puducherry
Odisha
Nagaland
Mizoram
Meghalaya
Manipur
Maharashtra
Madhya Pradesh
Lakshadweep
Kerala
Karnataka
Jharkhand
Jammu & Kashmir
Himachal Pradesh
Haryana
Gujarat
Goa
Delhi UT
Daman & Diu
D&N Haveli
Chhattisgarh
Chandigarh
Bihar
Assam
Arunachal Pradesh
Andhra Pradesh
A & N Islands
State/UT
Total Victims
0
1000
2000
3000
4000
5000

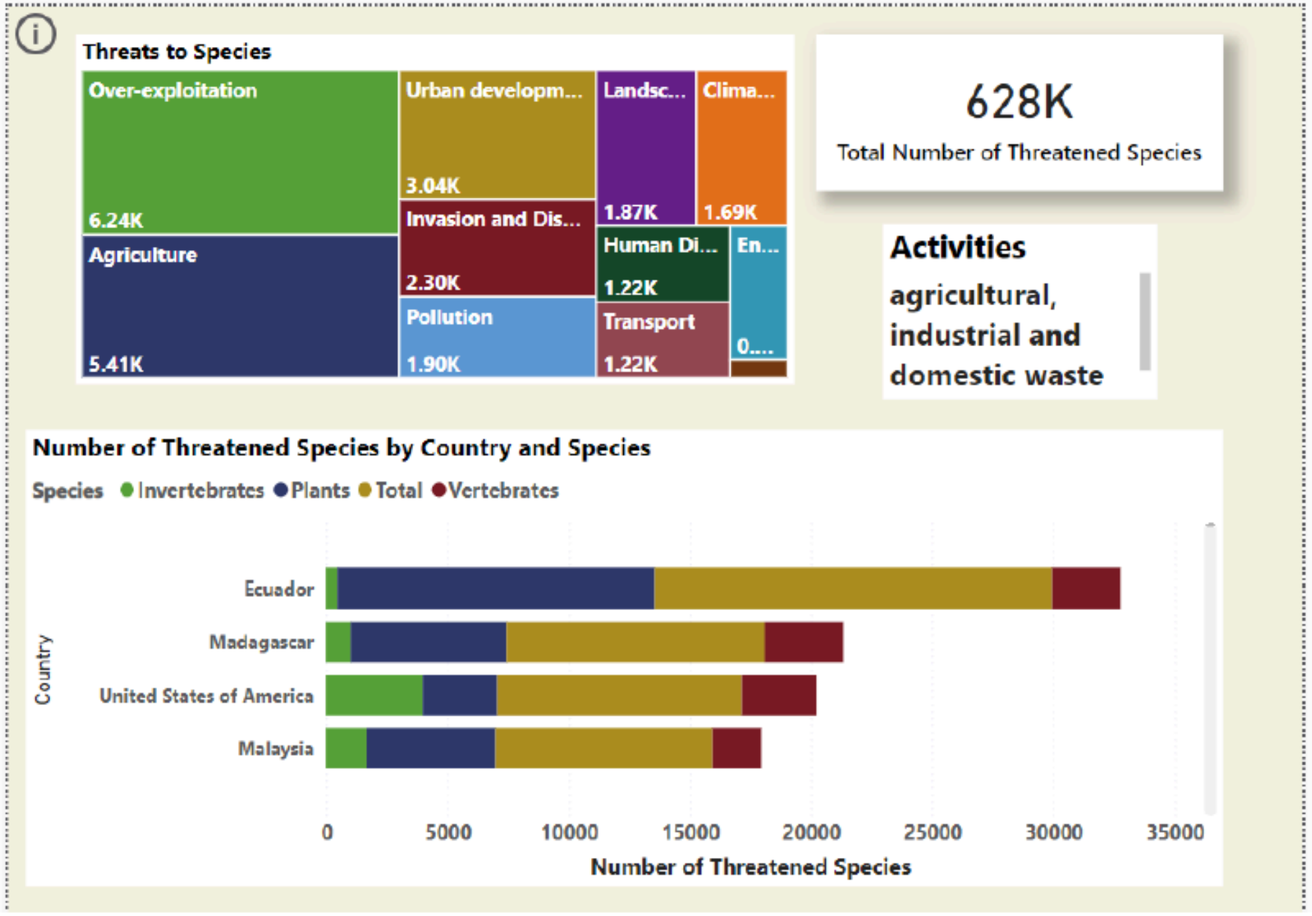
EXP 5


Scatter Plot of Weighted Sum vs. Tax Value
Tax Value
1000000
750000
500000
30
60
90
120
150
Weighted Sum


Logistic Regression: Predicted vs. Actual Monument Status
Monument (0/1)
1.00
0.75
0.50
0.25
0.00
0.00
0.25
0.50
0.75
1.00
Predicted Probability of Monument


Box Plot of Weighted Sum
Weighted Sum
150
120
90
60
30
x

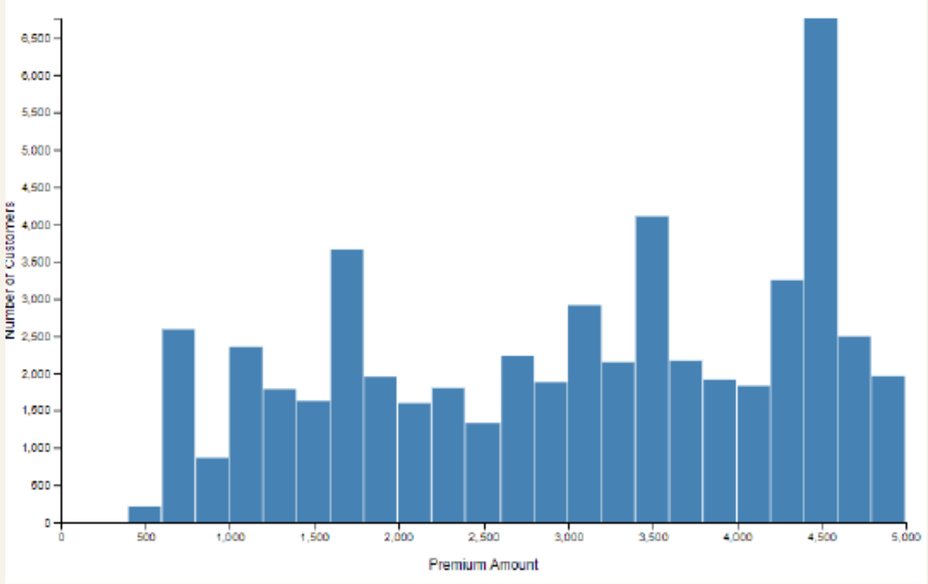

Confusion Matrix
Actual
1
0
46
49
0
1
Predicted
Count
40
30
20
10
0

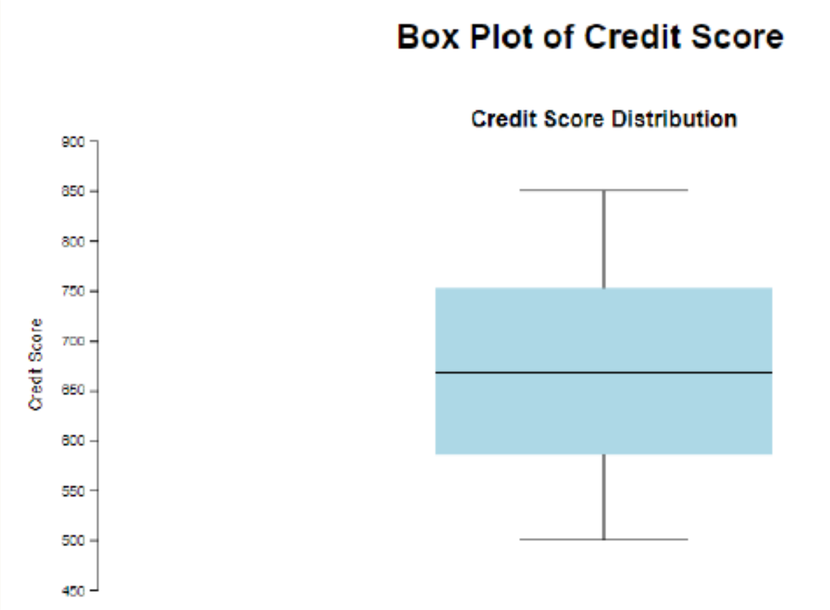

Threats to Species
Over-exploitation
6.24K
Urban developm...
3.04K
Landsc...
1.87K
Clima...
1.69K
Agriculture
5.41K
Invasion and Dis...
2.30K
Human Di...
1.22K
En...
Pollution
1.90K
Transport
1.22K
0....
628K
Total Number of Threatened Species
Activities
agricultural, industrial and domestic waste
Number of Threatened Species by Country and Species
Species Invertebrates Plants Total Vertebrates
Ecuador
Madagascar
United States of America
Malaysia
Country
0
5000
10000
15000
20000
25000
30000
35000
Number of Threatened Species

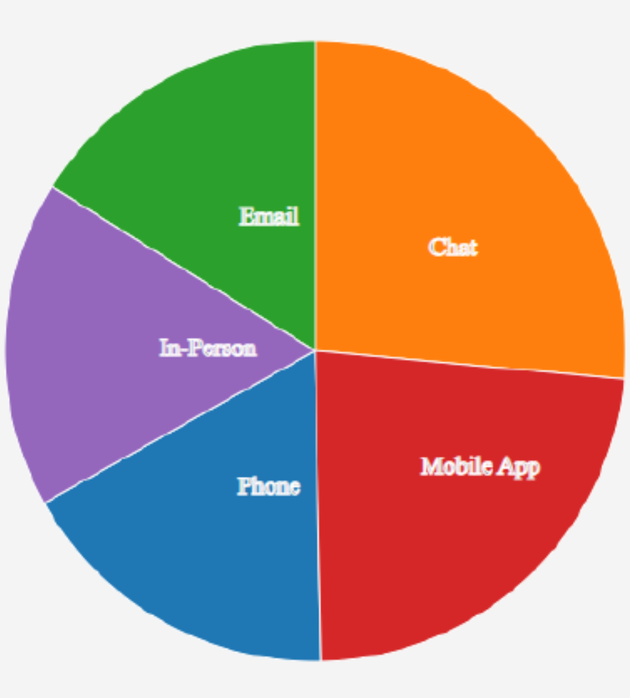
EXP 6

SpeciesCountByRegion by Country
ASIA
NORTH AMERICA
EUROPE
ASIA
NORTH AMERICA
Pacific Ocean
Atlantic Ocean
Pacific Ocean
AFRICA
AUSTRALIA
SOUTH AMERICA
SOUTH AM
Country Angola
SpeciesCountByRegion 28
ANTARCTICA
Microsoft Bing
© 2024 TomTom, © 2024 Microsoft Corporation, © OpenStreetMap Terms

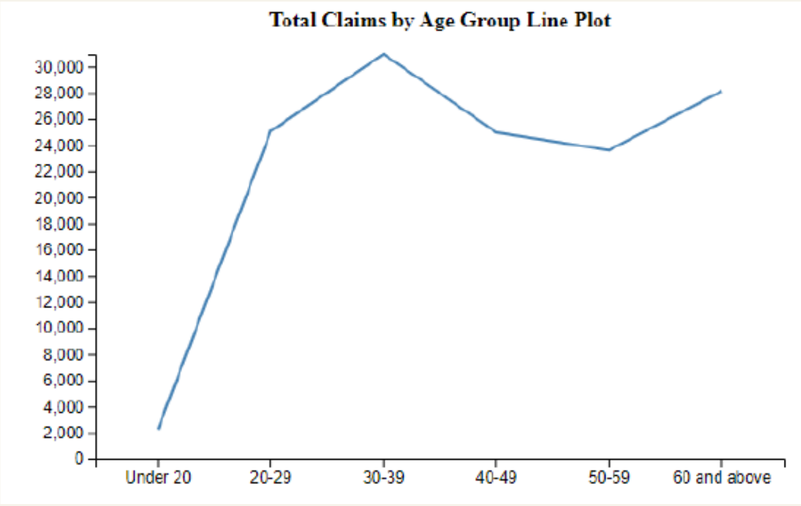
EXP 7

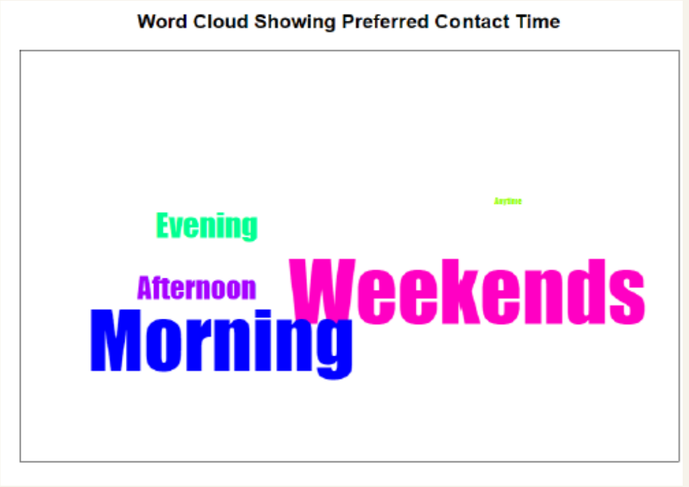

Number of Customers
Premium Amount
0
500
1,000
1,500
2,000
2,500
3,000
3,500
4,000
4,500
5,000

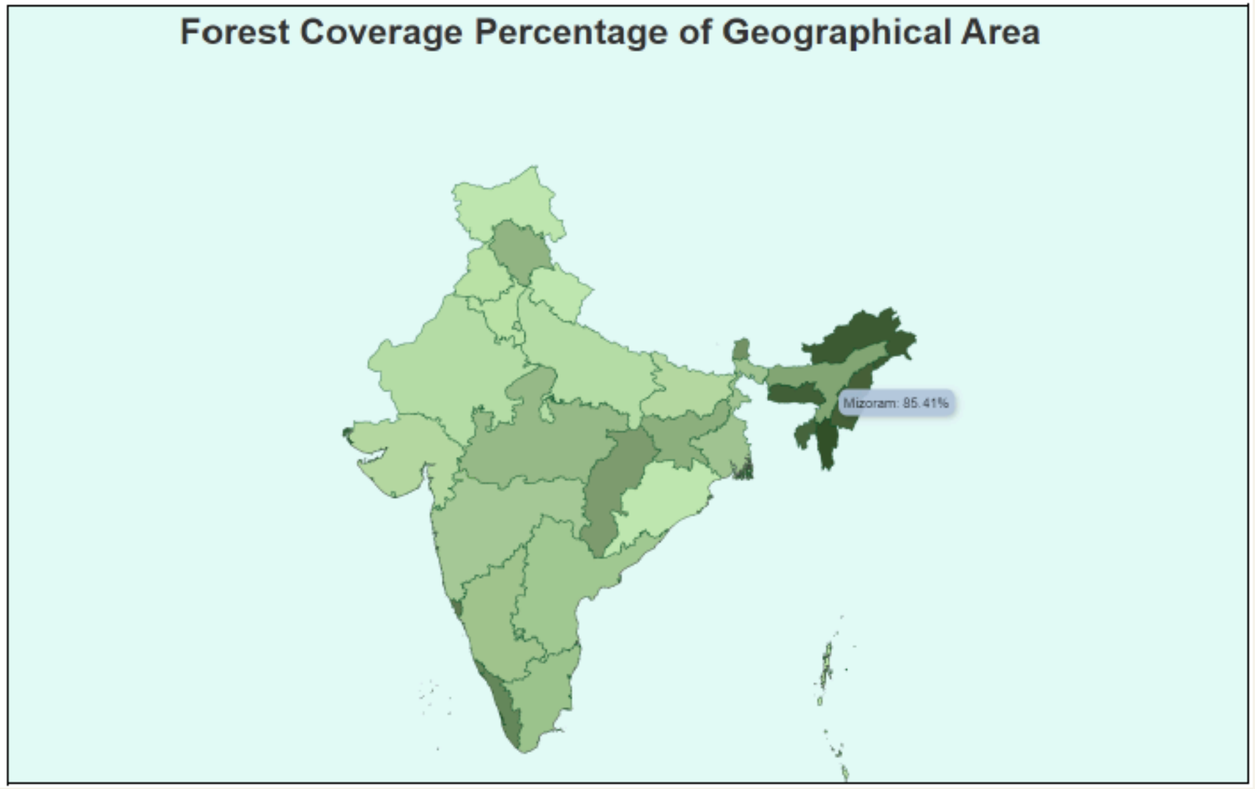

Box Plot of Credit Score
Credit Score Distribution
Credit Score
900
850
800
750
700
650
600
550
500
450

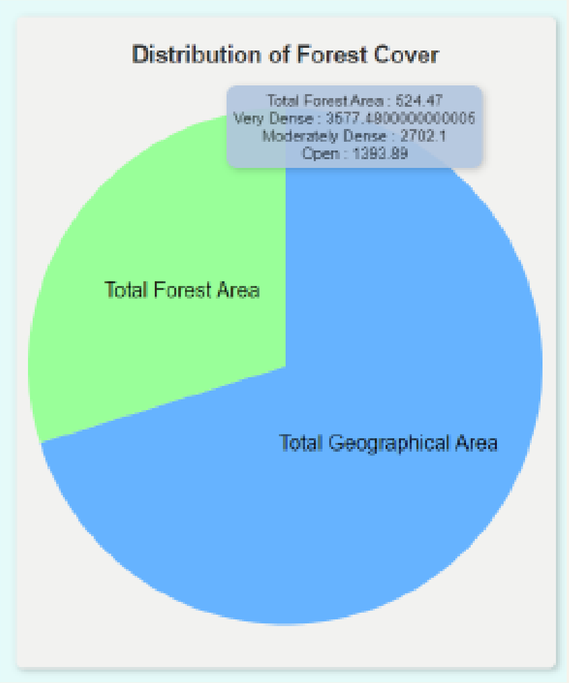

Email
Chat
In-Person
Phone
Mobile App

Distribution of Policy Types
Number of Customers
Policy Type
Group
Family
Individual
Business
18,000
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0

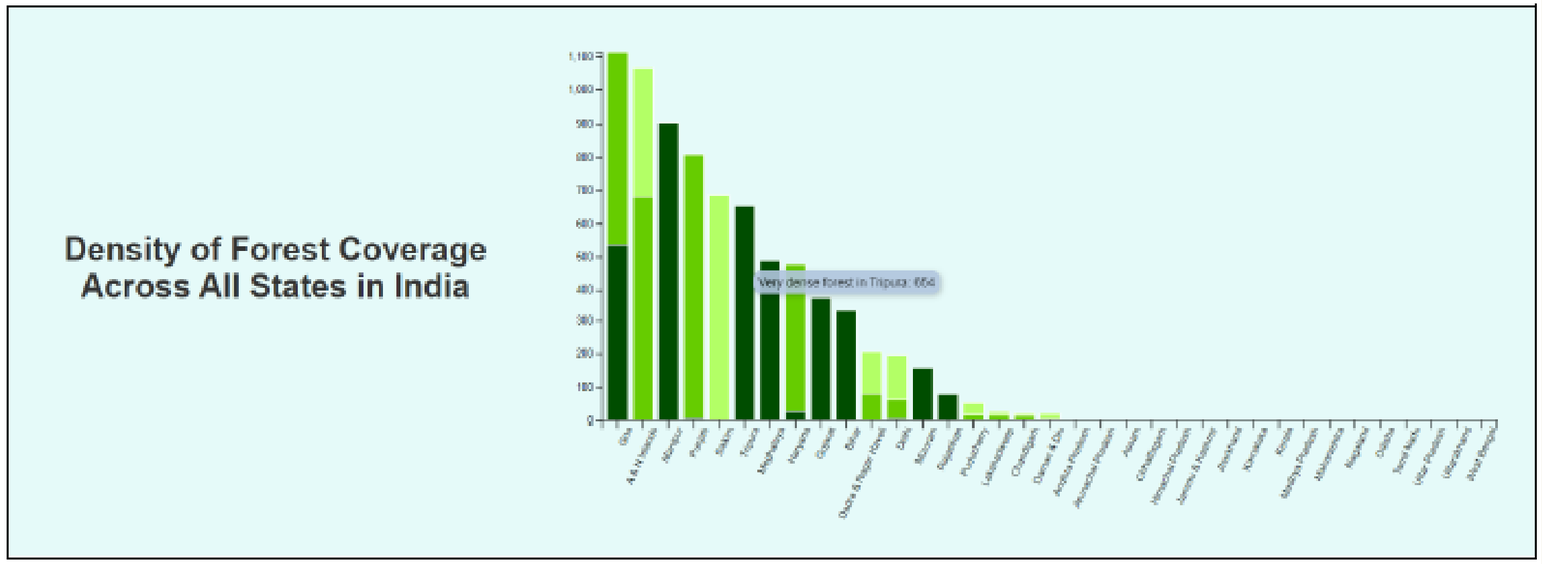

Total Claims by Age Group Line Plot
30,000
28,000
26,000
24,000
22,000
20,000
18,000
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
Under 20
20-29
30-39
40-49
50-59
60 and above

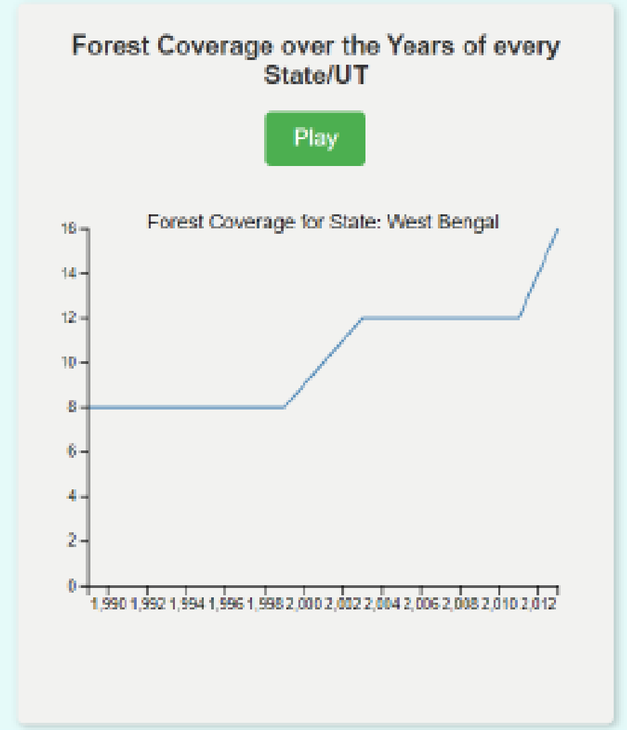

Word Cloud Showing Preferred Contact Time
Evening
Afternoon
Morning
Weekends


Forest Coverage Percentage of Geographical Area
Mizoram: 85.41%


Distribution of Forest Cover
Total Forest Area : 524.47
Very Dense : 3577.4800000000005
Moderately Dense : 2702.1
Open : 1393.89
Total Forest Area
Total Geographical Area

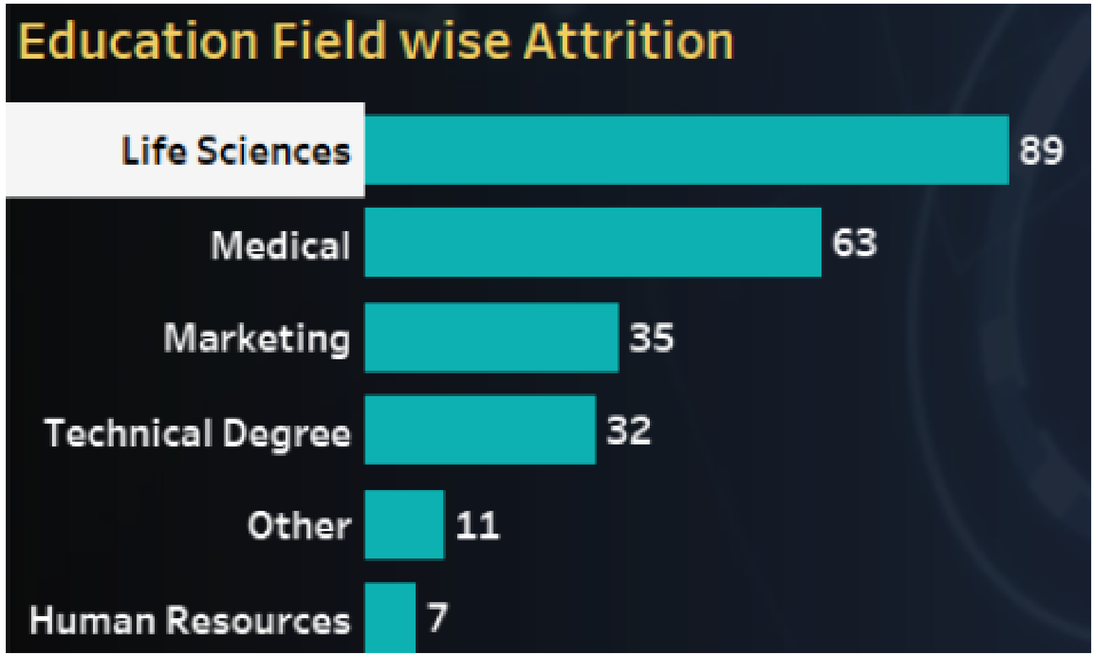
EXP 8

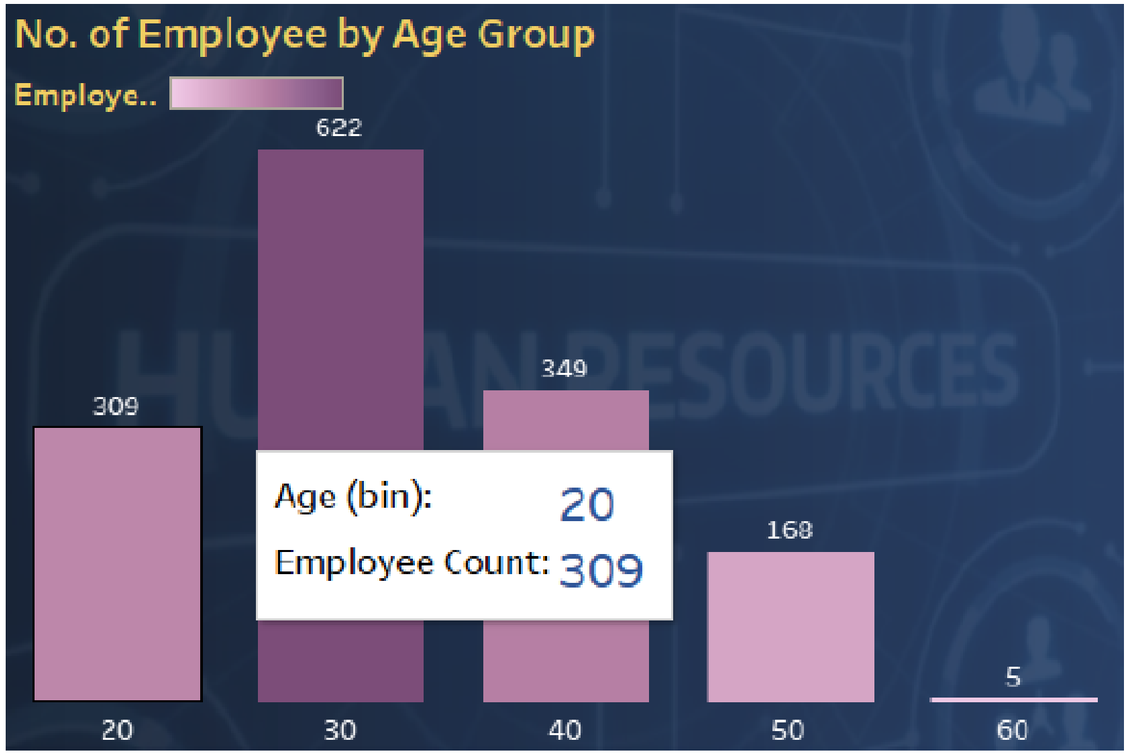

Density of Forest Coverage Across All States in India
Very dense forest in Tripura: 654

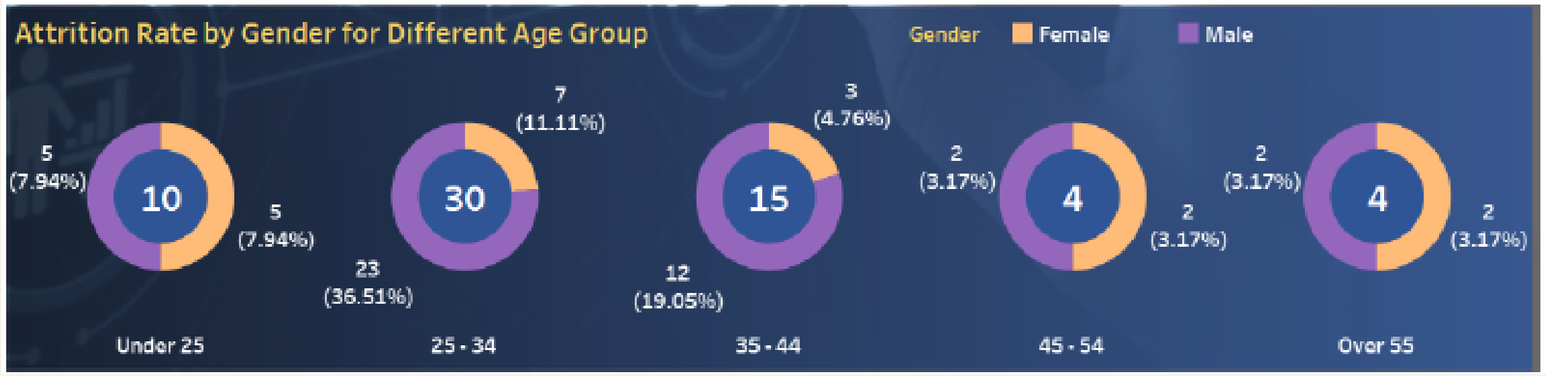

Forest Coverage over the Years of every State/UT
Play
Forest Coverage for State: West Bengal
16
14
12
10
8
6
4
2
0
1,990 1,992 1,994 1,996 1,998 2,000 2,002 2,004 2,006 2,008 2,010 2,012

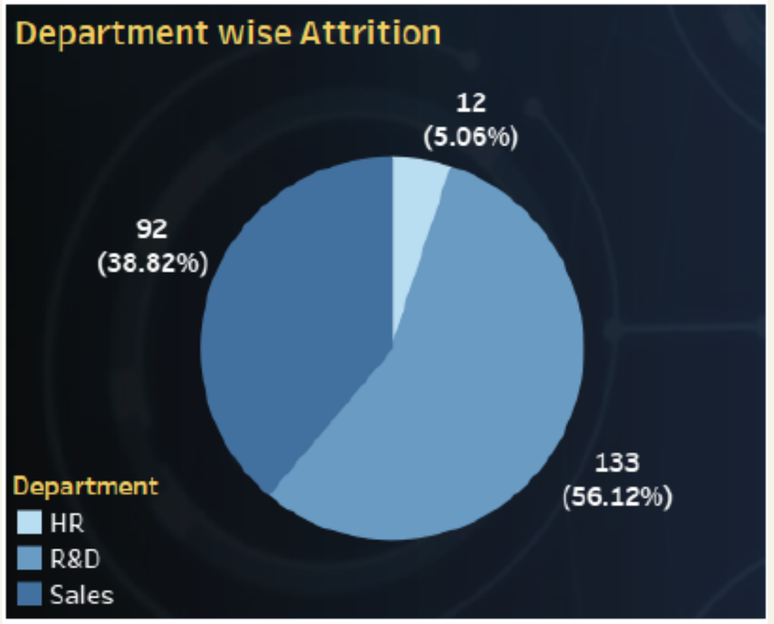
EXP 9

Employee Count
1,470
Attrition Count
237
Active Employees
1,233
Avg. Age
37
Attrition by Gender
Male
150
Fema..
87


Education Field wise Attrition
Life Sciences
89
Medical
63
Marketing
35
Technical Degree
32
Other
11
Human Resources
7


No. of Employee by Age Group
Employe..
309
622
349
168
5
20
30
40
50
60
Age (bin): 20
Employee Count: 309

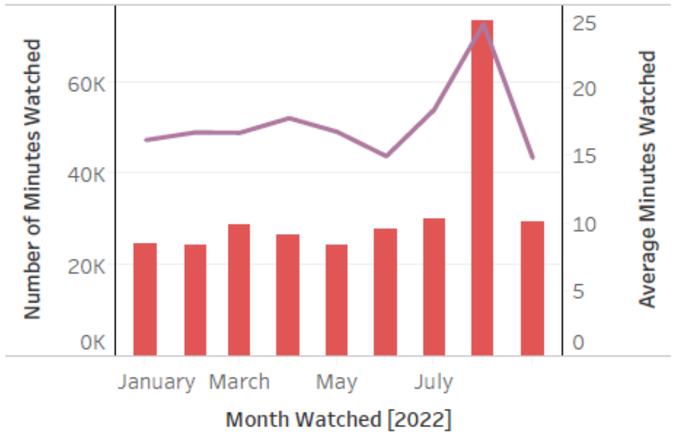
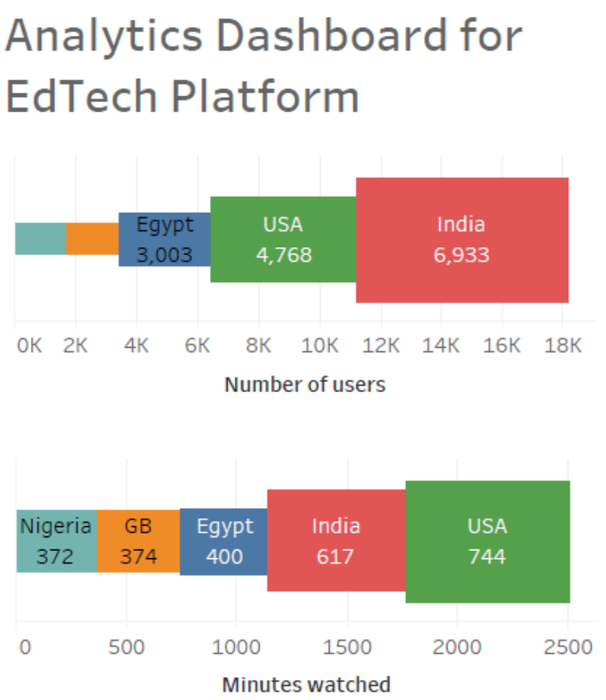

Attrition Rate by Gender for Different Age Group
Gender
Female
Male
10
5
(7.94%)
5
(7.94%)
30
7
(11.11%)
23
(36.51%)
15
3
(4.76%)
12
(19.05%)
4
2
(3.17%)
2
(3.17%)
4
2
(3.17%)
2
(3.17%)
Under 25
25 - 34
35 - 44
45 - 54
Over 55


Department wise Attrition
12
(5.06%)
92
(38.82%)
133
(56.12%)
Department
HR
R&D
Sales

EXP 10

Course Name

Course Title	Minutes Watched:	Average Minutes Watched:	Average Rating:	Number of Ratings:
Introduction to Data and Data Science	333,266	22	5	572
Introduction to Excel	164,472	27	5	242
Python Programmer Bootcamp	155,164	34	5	101
SQL	234,825	36	5	125
Statistics	193,280	28	5	215

Registered Students
35,230

Minutes Watched
320,682