



**Techincal Coding Research Innovation , Navi Mumbai,
Maharashtra,India-410206**

(Uber Traffic Planning Data Set)

**A Case – study Submitted For the requirement Of
Techincal Coding Research Innovation**

**For the Internship project work done during
DATA ANALYTICS USING MICROSOFTPOWER BI
INTERNSHIP PROGRAM**

By

**RAJBHAR ABHISHEK RAMESH (TCRIN01R35)
NIHAR VIDESH NAGDEVE (TCRIN01R55)
CHINMAY R SINGOLE (TCRIN01R39)**

BATCH : Sep 2022- Oct 2022

DATE:15/11/2022

ABOUT ORGANIZATION:

TCR Innovation stands for Technical Coding & Research Innovation, is a best institute for industrial training and internship programs and believes in "bridging the gap between students and their knowledge in the industrial field & bringing them a step closer to their Dream, TCR Innovation focus on industrial training and offer Internship Programs where you can learn the in-demand professional skills to advance your career in Artificial Intelligence, Machine Learning, Deep Learning, Python with Automation, Computer Vision, Data Science, Digital Marketing, Python Programming, Software development, Database and more. TCR INNOVATION was founded in Feb 2020 by Rutuja Dolphode and Saheel Ramji. Their Internship Programs are specially designed so Interns can learn new skills or enhance their skills in the most efficient way. Interns are First trained by the Mentors in their applied Domain through Live Lectures. Comprehensive Notes & Study Materials are provided along with Intensive Training in the domain. After the Training Period is Complete, Interns are given the Opportunity to work on an Industrial-Level Project which will be the Project Phase and one of the most Important Phase of their Internship. The Training completion certificate along with the Internships Certificate are awarded after the Successful Completion of your Project with Letter of Recommendation. Email of TCR Innovation is terinnovation@torinnovation.co.in and their website is <https://tcrinnovation.co.in/> The current status of TCR Innovation is active

Aim:- Using Different Visual to analyse Dataset For Uber traffic Planning

Abstract :-

Data analytics has helped companies optimize and grow their performance for decades. Data analytics and visualization has aided us with several benefits, few of them being identifying emerging trends, studying relationships and patterns in data, analysis in depth and cherry on top are the insights we draw from these patterns. It is requirement of time that we study this concepts in thoroughly for all this benefits it provides. This project is all about understanding one such data set of uber from Bengaluru/ Bangalore city and is very component to understand the use of data analytics and visualization.

It is generated with the help of Microsoft Power Bi visulalization Tool.

INTRODUCTION

About Power BI

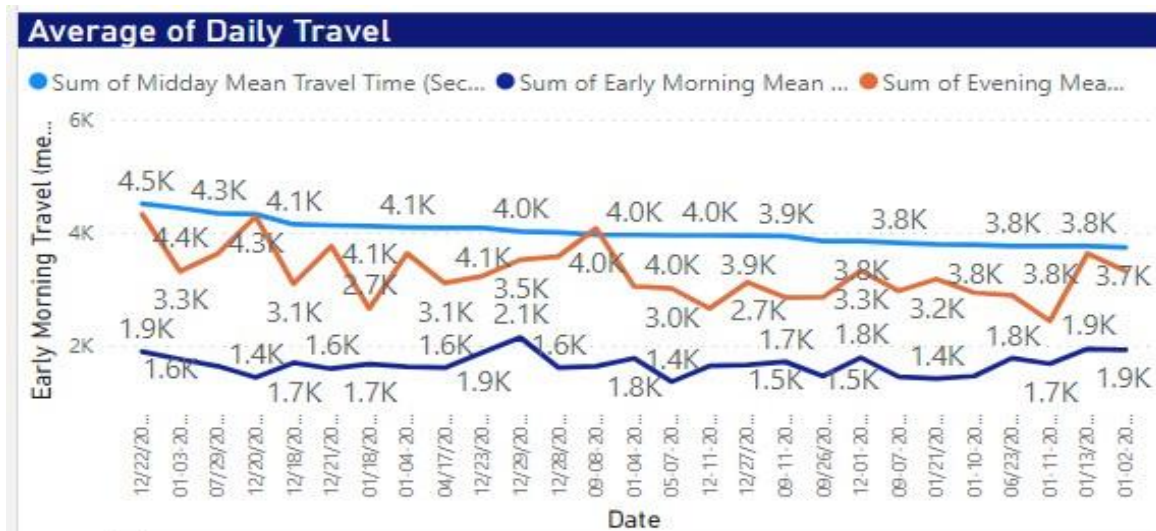
Power BI is a suite cloud-based business analytics tools that is used to analyse data and share insights in the form of reports and dashboards. Processes in Power BI starts with connecting and loading data. The service enables to connect to a wide variety of data sources more than 70 data providers. Once the data has been loaded, data transformation are applied according to the needs of the report and dashboard being developed.

To grow business with this competitive environment data analysis is necessary. Data analysis reports, and other kinds of analysis and report documents must be developed by businesses so that they can have references for peculiar activities and undertakings especially when making decisions for the future operations of the company

DATA SET :-Uber Data set used for Analysis

[illegible]

Model:-



Here in the above line chart visual we analyse the average of daily travel .

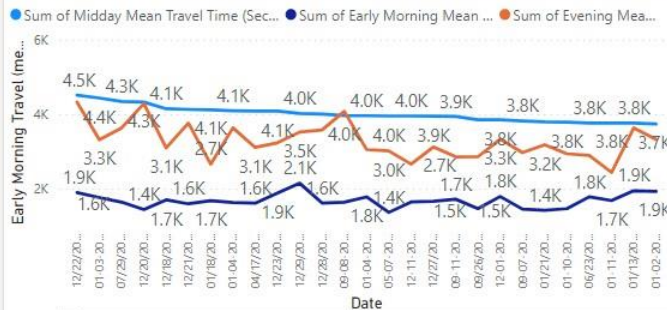


Here in the above Stacked column chart visual we analyse the average of Early morning travel .

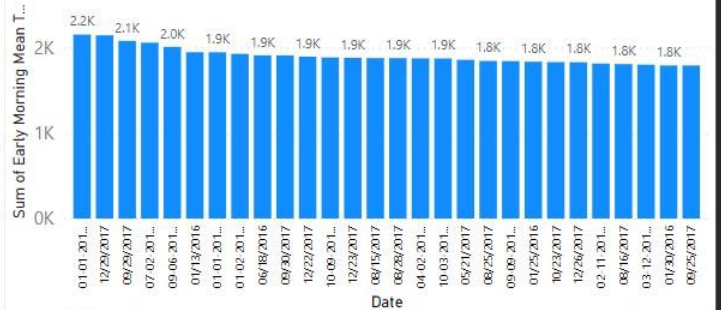
RESULT:-

UBER TRAFFIC DASHBOARD

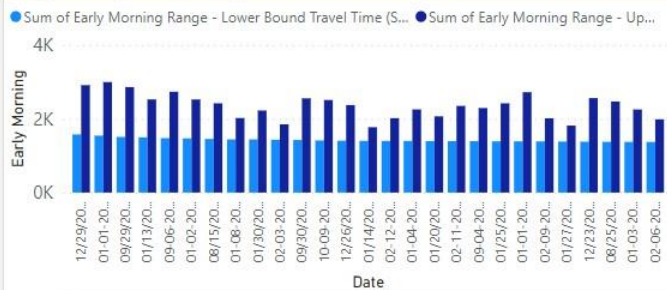
Average of Daily Travel



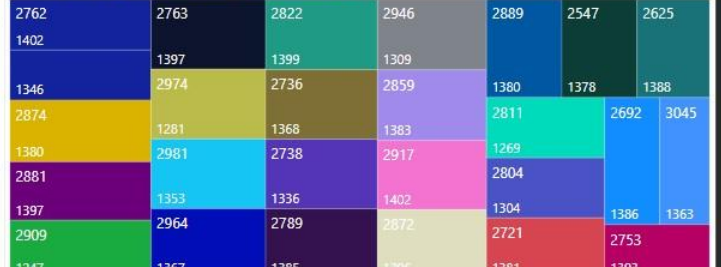
Average of Early Morning Travel



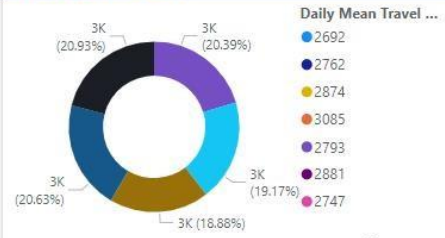
Early Morning Lower and Upper bound Travel Pattern



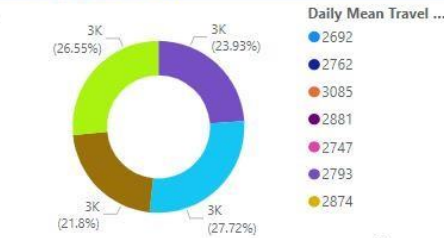
Sum of AM Mean Travel Time (Seconds) by Daily Mean Travel Time (Seconds) and Early Morning Mean Travel Time (Seconds)



Sum of Midday Mean Travel Time by Daily Mean Travel Time and Date



Sum of Evening Mean Travel Time by Daily Mean Travel Time and Date



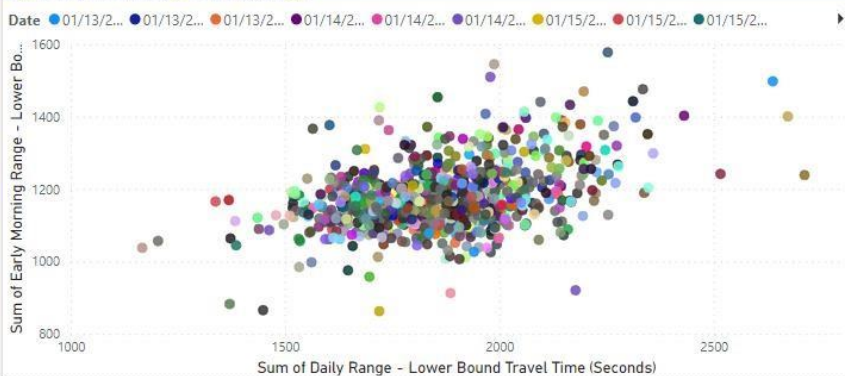
2M
AM Mean Travel Time

2M
Evening Mean Travel Time

2M
Midday Mean Travel Time...

3M
PM Mean Travel Time

Sum of Daily Range - Lower Bound Travel Time (Seconds) and Sum of Early Morning Range - Lower Bound Travel Time (Seconds) by Date



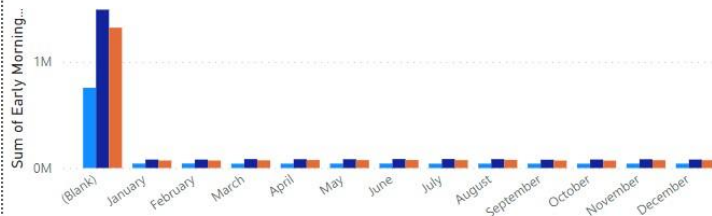
Origin Place



AM / MORNING TIME TRAFFIC

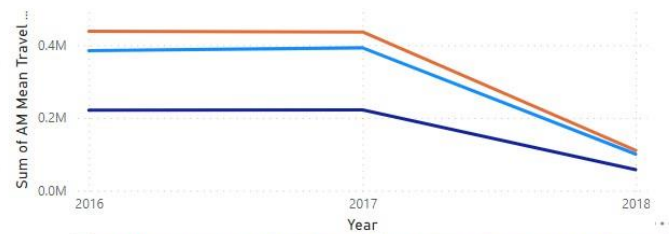
Sum of Early Morning Mean Travel Time ,AM Mean Travel Time , Midday Mean travel Time By Month in seconds

Sum of Early Morning Mean Travel Time (S... Sum of Midday Mean Travel Ti... Sum of AM Mean Trav...



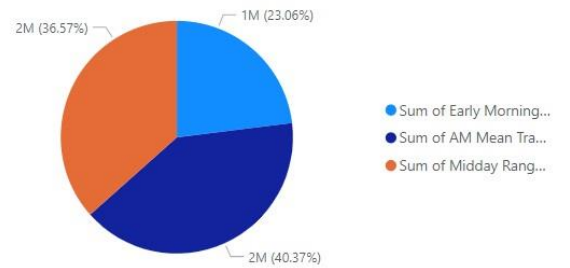
Sum of AM Mean Travel Time , Early Morning Mean Travel Time and Midday Mean Travel Time in Seconds by Year

Sum of AM Mean Travel Time (Sec... Sum of Early Morning Mea... Sum of Midday Mea...



Year	Month	Sum of Early Morning Mean Travel Time (Seconds)	Sum of Midday Mean Travel Time (Seconds)	Sum of AM Mean Travel Time (Seconds)
2016	January	756459	1491774	18376
2016	February	18376	36037	19316
2016	March	19316	35614	17723
2016	April	17723	37369	17892
2016	May	17892	38050	18599
2016	June	18599	37300	18397
2016	July	18397	37160	18140
2016	August	18140	37496	18838
2016	September	18838	37768	18211
2016	October	18211	33124	18284
2016	November	18284	35182	18816
2016	December	18816	36657	18637
Total		1257014	2476683	

Sum of Early Morning Mean Travel Time (Seconds), Sum of AM Mean Travel Time (Seconds) and Sum of Midday Range - Lower Bound Travel Time (Seconds)





PM / EVENING TRAFFIC ANALYSIS

Year

2016

2017

2018

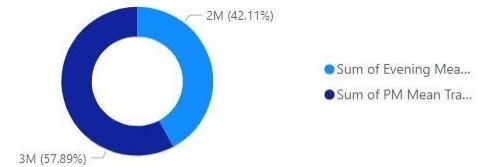
3M

Sum of PM Mean Travel Time
(Seconds)

2M

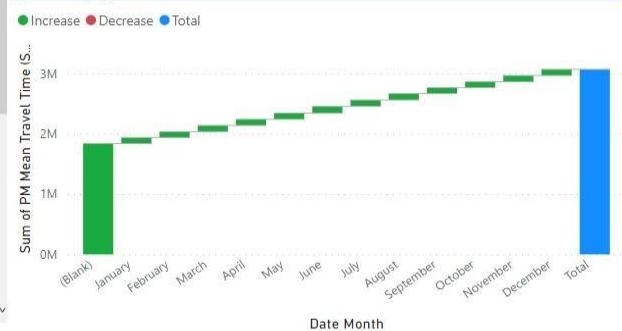
Sum of Evening Mean Travel Time
(Seconds)

Sum of Evening Mean Travel Time (Seconds) and Sum of PM Mean Travel Time (Seconds)



Year	Month	Sum of PM Mean Travel Time (Seconds)	Sum of Evening Mean Travel Time (Seconds)
		1838473	1340454
2016	January	45686	33865
2016	February	42328	31850
2016	March	44529	32618
2016	April	45601	31887
2016	May	45251	31662
2016	June	47676	32937
2016	July	45607	31793
2016	August	46710	32613
2016	September	41583	31205
2016	October	41391	30985
2016	November	44612	30999
2016	December	43524	30307
2017	January	42336	32387
2017	February	42958	32087
		3067850	2231815

Sum of PM Mean Travel Time (Seconds) and Sum of Evening Mean Travel Time (Seconds) by Month



CONCLUSION:

At the end of this Uber data analysis Microsoft Power BI project, I studied how to create data Visualizations. I used Power BI that helped us to plot various types of visualizations that pertained to several time-frames of the year. With this, conclude how traffic increased and decreased for three consecutive years. Finally, I made a dashboard with the graphs of how different time affected the graph. My objective was to manufacture a dashboard given by TCR Innovation. I have understood and have taken every necessary step utilizing Power BI adapted well about this application. The coursework appropriately set me up for the expert substance of the temporary job. confronted a few difficulties while doing the analysis. After work, have figured out how to work in an expert way. In a nutshell, this internship has been an excellent and rewarding experience. can conclude that there have been a lot I have learnt from my work at the research centre. Needless to say, the technical aspects of the work I've done are not flawless and could be improved provided enough time. As someone with no prior experience in Microsoft power BI whatsoever believe my time spent in research and discovering new was well worth it and contributed to finding an acceptable solution to an important aspect of Visualization. Two main things that I have learned the importance of our time-management skills and self-motivation. Although have often stumbled upon these problems at University, they had to be approached differently in a working environment.