



**THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE**

**(AUTONOMOUS) THIRUCHIRAPALLI-23**

**DEPARTMENT OF MATHEMATICS**

TEAM NO :1

PROJECT TITLE : VOYAGE VISTA ILLUMINATING INSIGHTS FROM UBER EXPEDITIONARY ANALYSIS

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TEAM NM ID. : NM2023TMID03077

TEAM LEADER : S. VENCY – 21RMT39

## **1. INTRODUCTION:**

### **1.1 OVERVIEW:**

Voyage Vista : Illuminating Insights From Uber Expeditionary Analysis Uber is a multinational transportation network company that operates a ride-hailing platform. It was founded in 2009 by Garrett Camp and Travis Kalanick and is based in San Francisco, California. Uber provides a convenient way for individuals to request rides from drivers who use their own personal vehicles.

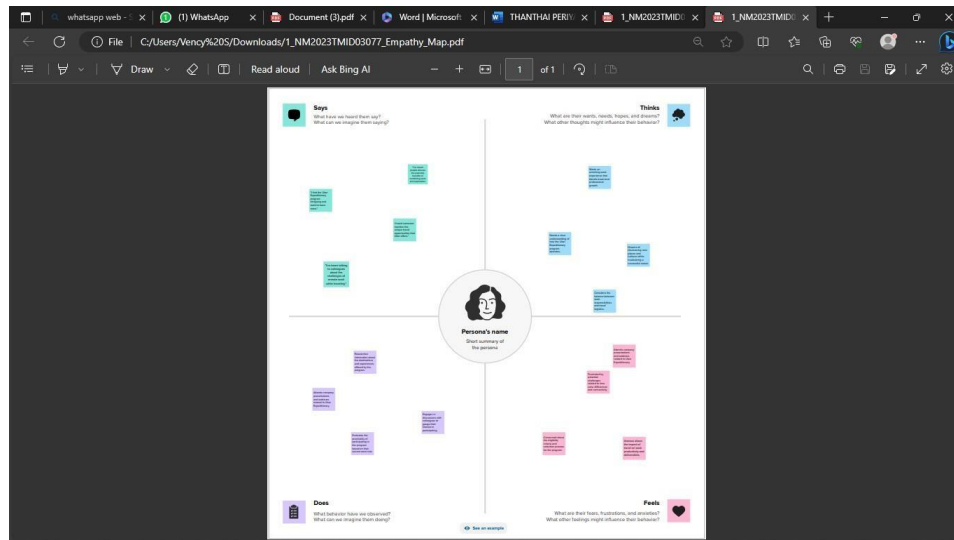
### **1.2 PURPOSE :**

Uber Driver Analysis refers to the Analyzing the number of trips taken by Uber drivers can provide insights into their overall activity and the demand for rides in specific areas. Daily, Weekly, or Monthly Analysis: Uber's data can be analyzed on a daily, weekly, monthly basis to understand the trends and patterns of trip volumes. This analysis can help identify peak hours or days of high demand and optimize driver availability during those times. Trips can be analyzed based on geographic regions or specific cities to identify areas with higher demand. This analysis can help Uber drivers decide where to focus their driving efforts for maximum efficiency and profitability. The Major of our project is to use data Analyzing techniques to find unknown patterns in the Uber Drives dataset. The research is carried out on Uber drives data collected from the year 2016.

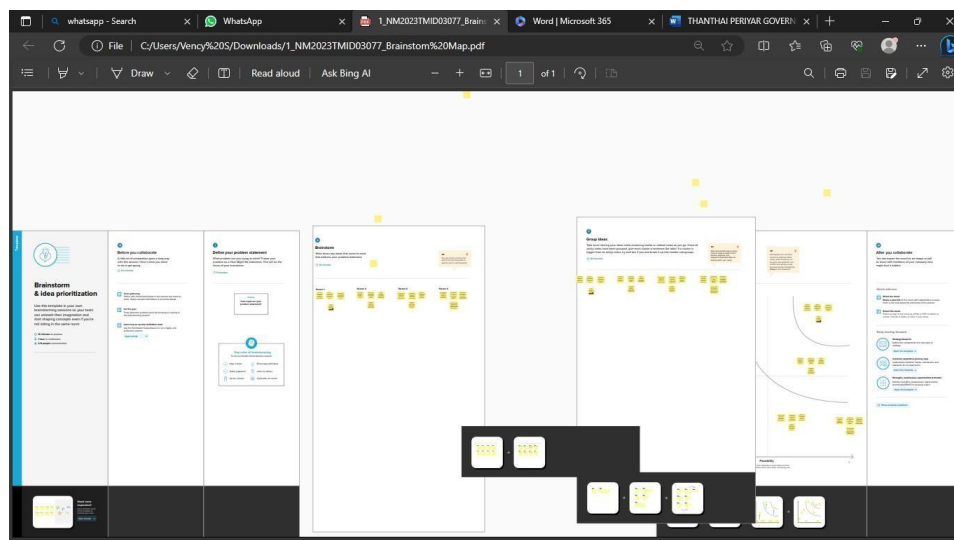
## 2. PROBLEM DEFINITION & DESIGN THINKING:

Define Problem / Problem Understanding Problem Understanding, also known as Problem Definition or Problem Identification, is the initial and critical phase of any data analysis or problem-solving process. It involves gaining a clear and comprehensive understanding of the problem at hand, its context, scope, and objectives.

### 2.1 EMPATHY MAP :

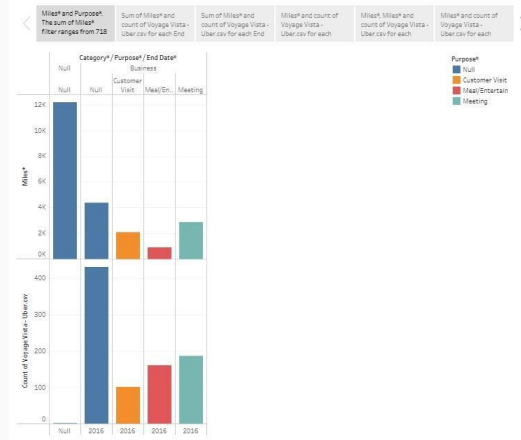


## 2.2 BRAINSTORMING MAP :



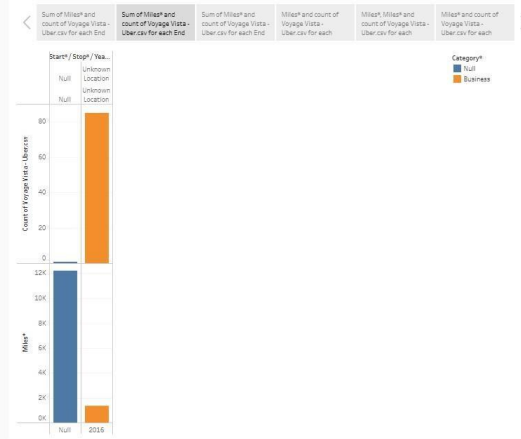
## 3 RESULT :

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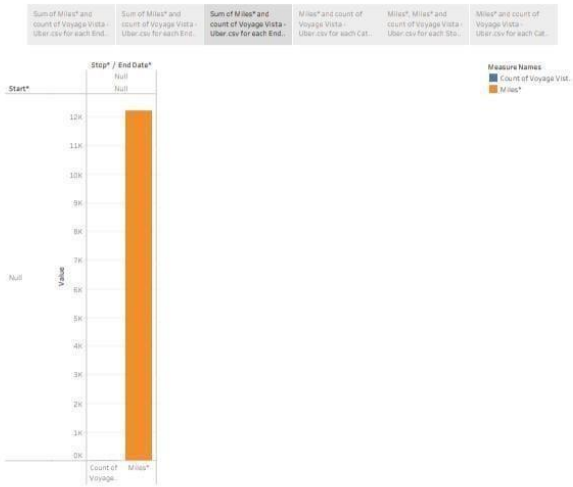
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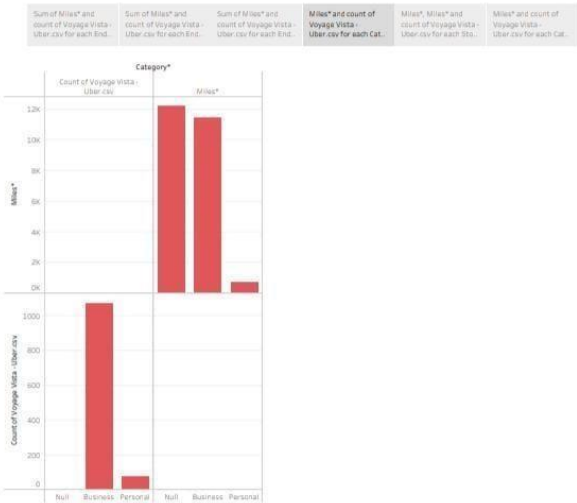


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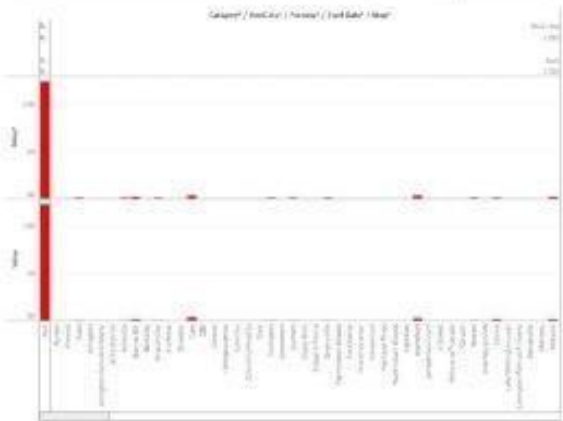


NM2023TMID03077 - Voyage Vista : Illumination Insights FromUber Expeditionary Analysis



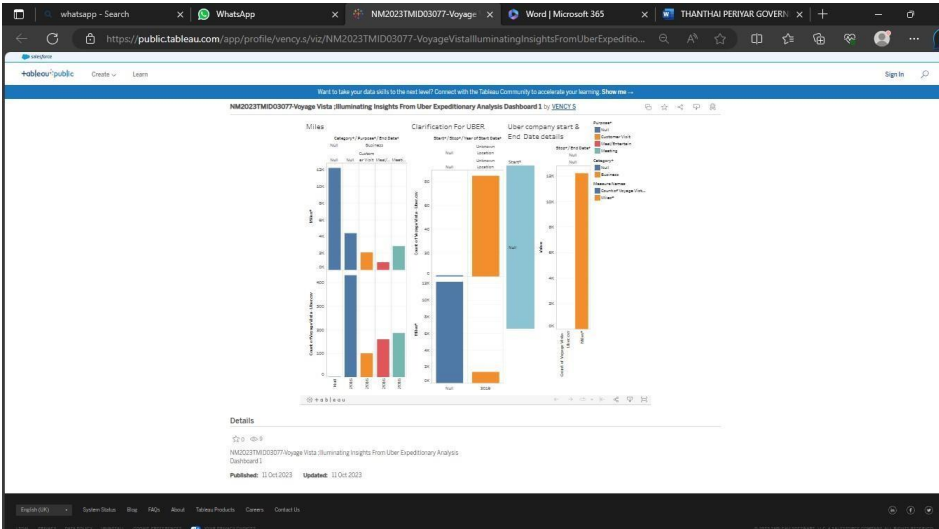
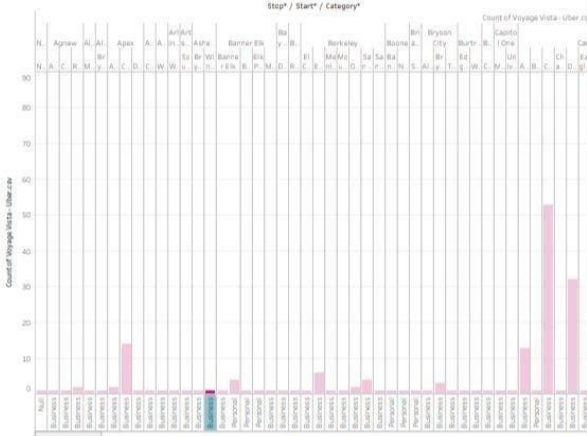
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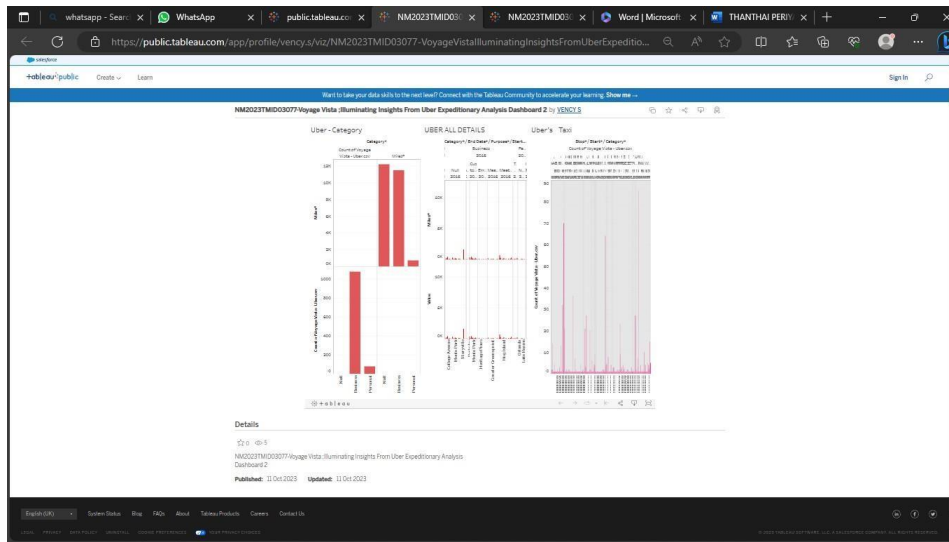


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Sum of Miles* and count of Voyage Vista - Uber.csv for each End...	Sum of Miles* and count of Voyage Vista - Uber.csv for each End...	Sum of Miles* and count of Voyage Vista - Uber.csv for each End...	Miles* and count of Voyage Vista - Uber.csv for each Cat...	Miles*, Miles* and count of Voyage Vista - Uber.csv for each Sto...	Miles* and count of Voyage Vista - Uber.csv for each Cat
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## Advantages and Disadvantages

The average fare has dropped overall, but the number of users has increased. Lower fares mean less attractive pay for the drivers, who operate as contractors. Thus, increasing the number of drivers or decreasing turnover at the same pace of the business growth has become a bigger challenge.

## Applications

Monday seems to have slightly better flow than the other weekdays, and particularly better than Saturday. As expected, Sunday has the lightest traffic. More drivers can be used on Monday than on any other days.

## Conclusion

In this report, all the interesting insights that can be derived from a detailed analysis of the dataset are discussed.