





# GOVERNMENT ATRS AND SCIENCE COLLEGE, KANGEYAM PG AND RESEARCH DEPARTMENT OF MATHEMATICS

Course Name : Data Analytics with Tableau

Academic Year : 2023-2024

A project report entitled as

"Voyage Vista: Illuminating Insights Form Uber Expeditionary Analysis"

#### Work done by

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Under the guidance of

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**VOYAGE VISTA: ILLUMINATING INSIGHTS FORM** 

#### **UBER EXPEDITIONARY ANALYSIS**

#### 1.INTRODUCTION

#### 1.10verview

Uber and other taxi app companies have changed the transportation industry. The taxi business revolutionized every business model that had been functioning in the same way. Ridesharing app services have interrupted the taxi and limo industry. These apps offer door-to-door service, safety, and reliable quality.

One of Uber's key value propositions is offering scheduling flexibility to their driver-partners. According to a report by the Beneson Strategy Group, 73% of drivers prefer having a job that lets them choose their schedule. Drivers can use this flexibility to maximize their expected revenue during their available times. To this end, Uber provides heatmaps of customer demand that allow drivers to target high-demand regions that provide higher trip probabilility and therefore higher expected revenues.

However, there is no readily available way to determine whether trips starting at a particular location are worth the time it would take to service the trip. For example, a trip that takes longer due to traffic but has high demand may result in fewer total trips and be less valuable. On the other hand trips with less demand but are consistently much faster may be more valuable. Therefore it is in the driver's best interest to balance the demand of a location and the amount of time trips from that location will take.ty and therefore higher expected revenues.

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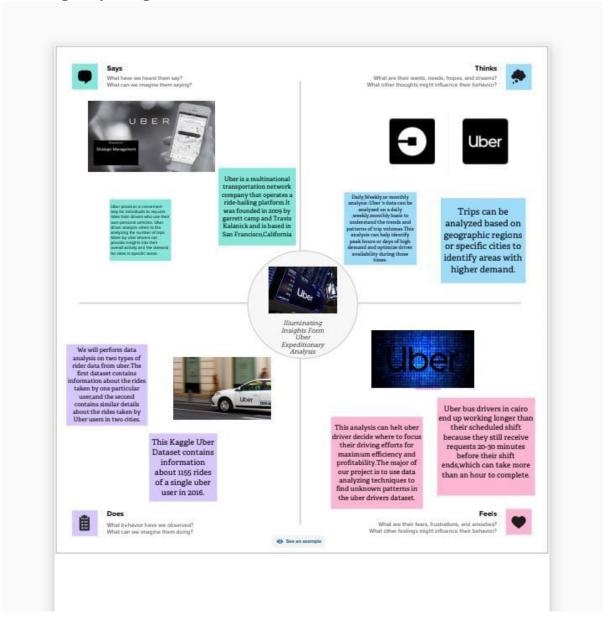


#### 1.2 PURPOSE:

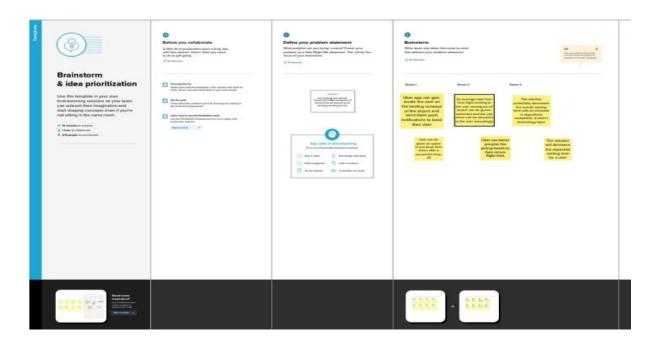
Uber is a transportation company with an app that allows passengers to hail a ride and drivers to charge fares and get paid. More specifically, Uber is a ridesharing company that hires independent contractors as drivers. Uber is a transportation company with an app that allows passengers to hail a ride and drivers to charge fares and get paid. More specifically, Uber is a ridesharing company that hires independent contractors as drivers. It's one of many services today that contribute to the, supplying a means of connecting existing resources instead of providing the physical resources themselves. Using a ridesharing app like Uber has several advantages over more traditional transportation methods. As mentioned, Uber's dynamic pricing model attracts drivers to certain areas at critical times, making it more likely that a car will be available during times of high passenger need.

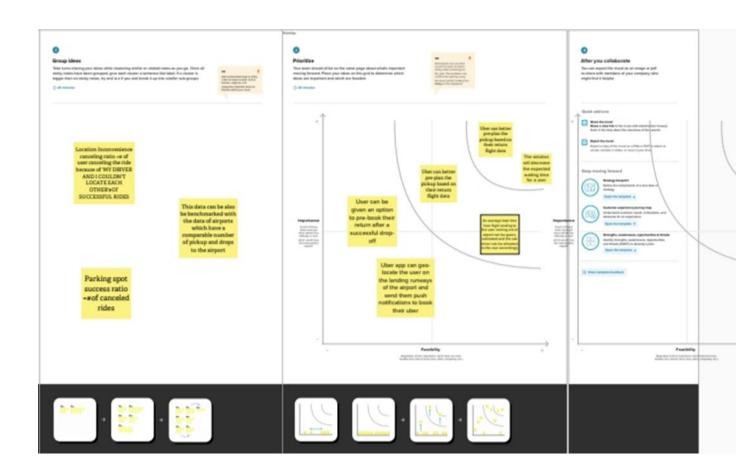
# 2.PROBLEM DEFINITION AND DESIGN THINKING

### 2.1 Empathy Map



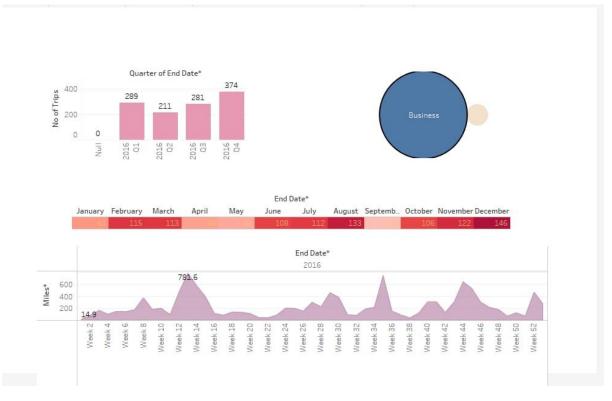
# 2.2 Ideation & Brainstorming Mapping



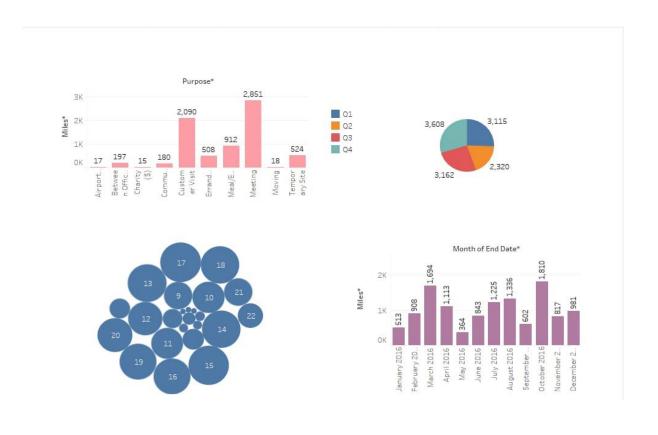


# 3.RESULT

### Dashboard 1

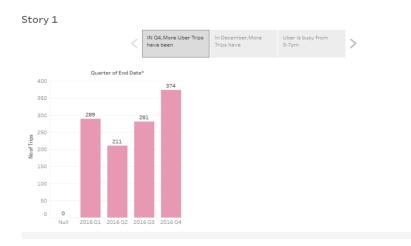


### Dashboard 2



# **STORY**

### STORY 1

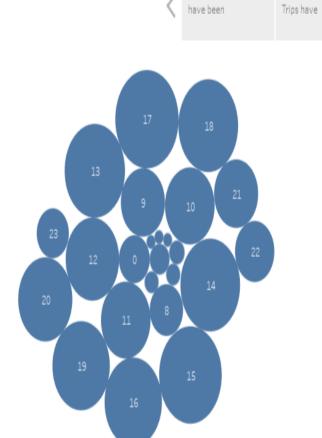


### STORY 1



### STORY 1

# Story 1



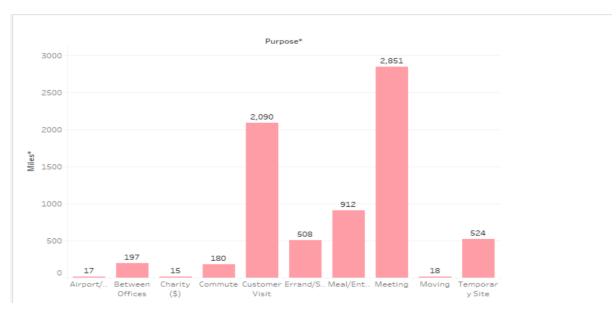
IN Q4,More Uber Trips In December,More

Uber is busy from

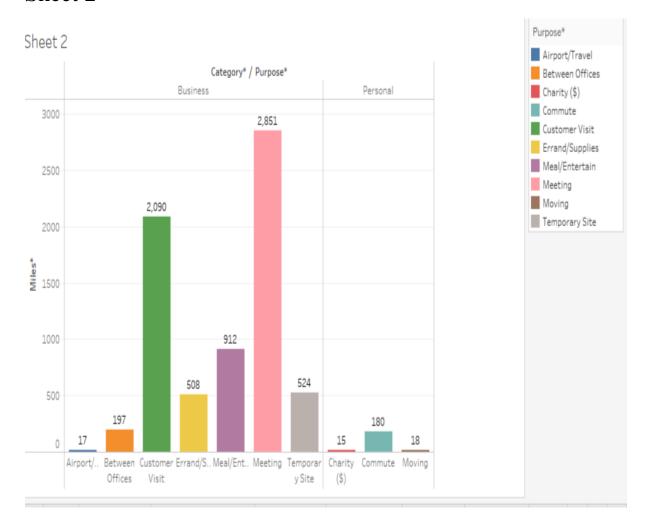
3-7pm

# **VISUALIZATIONS**

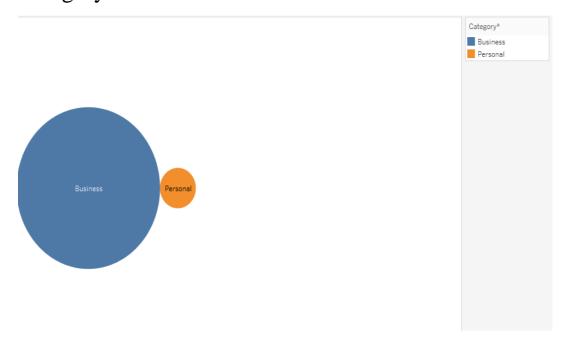
### Sheet 1



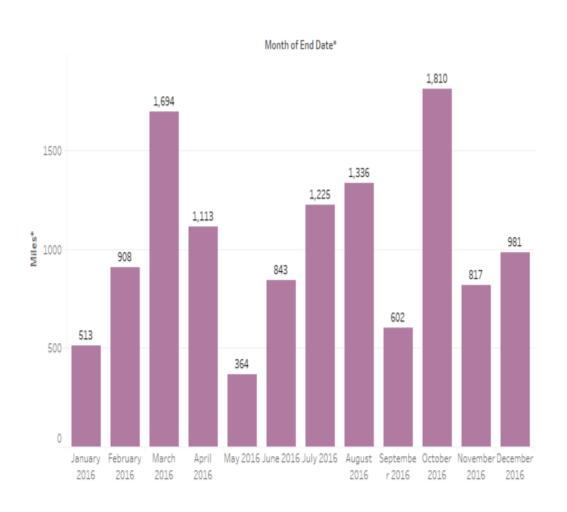
### Sheet 2



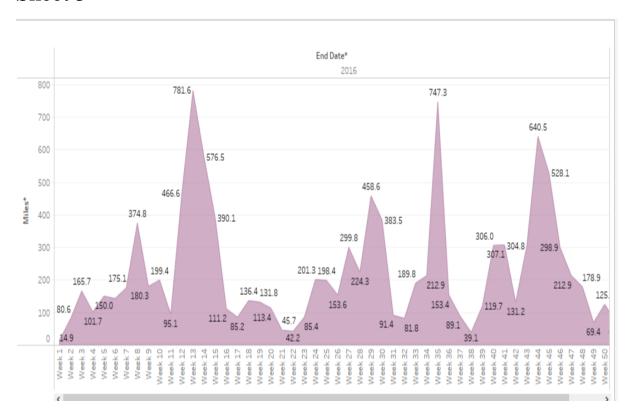
# Category of Miles



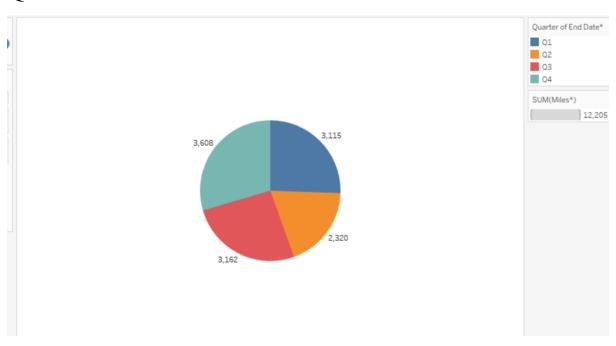
### Month Wise Miles



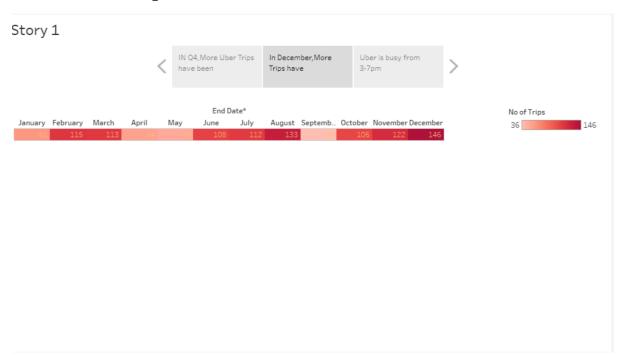
### Sheet 5



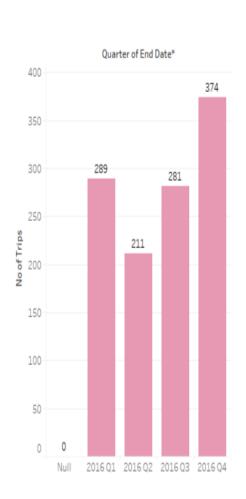
### Quarter Wise Miles



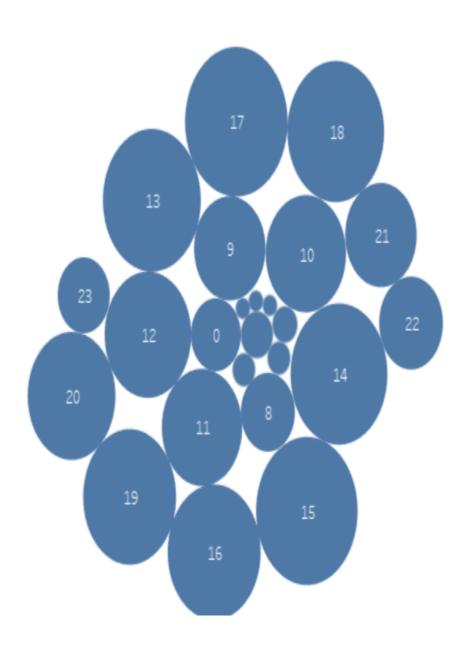
# Number of Trips Per Month



# Quarter Wise Tips



# Hour Wise Analysis



### **4.ADVANTAGES & DISADVANTAGES**

### Advantages:

The pros of being an Uber driver include having the freedom to pick your hours, meeting new people, and earning some income, while the cons include competing for rides, paying for gas and car maintenance, and possible negative reviews.

- Vehicle financing. Our partnerships with car agencies give help driver-partners start or grow their own business. ...
- Phone plans. When you drive with Uber, your phone is where you run your business. ...
  - Car insurance. Every trip is insured with no extra cost to you, while you are conected to the Uber app.



## Didadvantages:



- Increased competition among driver.
- The need to maintain a vehicle that meets Uber's standards.
- The possibility of receiving negative reviews.
- Expenses for gas, maintenance, and insurance.
  - Uncertainty about the payment rate for each ride.

### 5.CONCLUSION

Based on the MIP model results and interpretations, the team is able to claim that it brings meaningful value to an Uber driver in terms of expected revenue. There is a positive relationship between the number of time blocks prescribed by the model and the expected revenue for the driver. In order to increase their revenue, a driver should be available for as many time blocks as possible. Drivers now have a leg up on other drivers by making data-driven decisions as opposed to using heuristics for picking "optimal" locations to serve clients. With the feasible and convenient schedules that the model prescribes, drivers can now envision their job as a lucrative business with a competitive advantage.

#### 6.FUTURE SCOPE

Let us get into the post to know more about the Uber-like ondemand business, The current world is witnessing many advancements and a lot of startups are evolving rigorously in the world for the past few years. All because of the emergence of on-demand ideas in the current business world with a lot of opportunities. The on-demand apps assist you to order or book anything from anywhere.

The on-demand business also aids many <u>startups to earn more</u> <u>profits</u>. Even more traditional businesses have adopted ondemand business to increase their profits tremendously.

With this spark, some of the creative-minded startups have focused their vision on the on-demand business. If you are the one having any on-demand business idea on your mind and want to reach your target audience like Uber, then this might be the perfect blog to understand the future scope and demands of the <u>on-demand business</u>,



#### 7.APPENDIX

#### Github Link:

https://github.com/Ma1510/-Uber-Analysis/blob/main/README.md

#### Dashboard 1:

https://public.tableau.com/views/MATHUMITHA\_16976165463760/ Dashboard1?:language=en-

US&publish=yes&:display\_count=n&:origin=viz\_share\_link

#### Dashboard 2:

https://public.tableau.com/views/MATHUMITHA\_16976165463760/ Dashboard2?:language=en-

US&publish=yes&:display\_count=n&:origin=viz\_share\_link

### Story:

https://public.tableau.com/views/MATHUMITHA\_16976165463760/ Story1?:language=en-

US&publish=yes&:display\_count=n&:origin=viz\_share\_link