**TOPIC:UBER Cab Price Prediction**

Uber Cab Price Prediction

Introduction

The project is about the world's largest taxi company Uber inc. The main objective of project is to design an algorithm which will tell the fare to be charged for a passenger. Uber delivers service to lakhs of customers daily. Now it becomes really important to manage their data properly to come up with new business ideas to get best results. Eventually, it becomes really important to estimate the fare prices accurately.

# Compatible Products

This project has been tested by the Machine learning Alogorthims.

# Upgrades

To perform a preliminary EDA, we will follow specific steps to extract and understand the data visually:

1. Importing the Essential Packages

2. Identify a feature to explore and find the unique values in that column.

3 Handle NaN or NULL values.

4. Collecting insights from all visualizations

5. Plot a bar graph or histogram of the column data based on the data type

6. Creating a Heatmap visualization of day, hour and month.

7. Also I have tried to do some data training and testing on data for getting

a price prediction model.

# New Features

* In this project we will find the type of relationship between cab fares and weather. Uber and Lyft's ride prices are not constant like public transport. They are greatly affected by the demand and supply of rides at a given time.
* We would like to understand what drives the demand of the rides and how the prices vary with time and weather conditions. Times around 9 am and 5 pm should see the highest surges on account of people commuting to work/home. Another guess would be the weather; rain/snow should cause more people to take rides.
* We use this data for training a model using ML and building a smart AI based predictive system. Model can automatically send the insights to the authorities or drivers related to areas having most trips and passenger count in certain areas. And also predict the price on the uber ride. At the end of all procedure we get to see different graphs giving us unbelievable insights.