

Effect of weather on Uber ridership in New York City in 2009-2014

Kevin Mosweu

Fahmida Billa

Karan Anand

This project intends to perform data analysis on the effect of weather on Uber ridership within New York City in the years of 2009-2014

The question we would like to explore are:

- Relationship between temperature and the fare amount and trip distance
- Relationship between different weather conditions and the fare amount and distance
- Relationship between different time intervals and the fare amount and distance

The data set to be used will be:

- CSV file downloaded from Kaggle: <https://www.kaggle.com/datasets/yasserh/uber-fares-dataset>
- The historical OpenWeather API at `https://api.openweathermap.org/data/3.0/onecall/timemachine?lat={lat}&lon={lon}&dt={time}&appid={API key}`

Tasks:

- Cleaning/Shortlisting data sourced from Kaggle
- Sourcing weather data from OpenWeather API
- Combining data into single data frame as per date
- Visualisation and analysis of data
- Reporting findings in a presentation