Flight Price Prediction

Name: Divya Mahajan **Student ID: W1650026**

Name: Maitreyee Gadwe **Student ID: W1632896**

Problem Statement

Our project aims to predict flight ticket prices, assisting travelers in selecting the most cost-effective options for their desired destinations and travel times.

Approach

We propose employing a linear regression model to forecast flight ticket prices, leveraging data gathered from popular travel websites like Momondo, Kayak, and Expedia. Our prediction model will consider key factors including previous flight prices, destination, departure, class, and airline.

Data Description

We will curate our dataset by scraping data from various travel websites, ensuring a comprehensive and up-to-date collection of flight information. Additionally, we will incorporate data from the "Search Engine Results - Flights & Tickets Keywords Dataset," providing insights into the top destinations as ranked on Google.

Tools and Technologies

Our project will utilize the following tools and technologies:

- Web scraping using Selenium and BeautifulSoup.
- Regression modeling with Scikit-learn and Statsmodels.
- Data manipulation using Numpy and Pandas.
- Data visualization through Matplotlib, Seaborn, and Tableau.

Our streamlined approach will empower travelers to make informed decisions about their flights, helping them find the best prices and optimal travel times.