Analysing The Air Traffic Trend Based On Passenger And Landing Count In United States

First, we both discussed on choosing the topic and then we mutually agreed proceeding with Flight related data. After a lot of searching, we finally got the datasets from US Gov website and we took a dataset each, after cleaning and pre-processing we successfully loaded our individual dataset into MongoDB using python. Then we performed ETL process using python and then we loaded the data into PostgreSQL. After doing the adjustments related to datatypes we performed visualisation like bar plots, pie charts, heat maps, scatter plots, violine plots to explore more about the data. Then we combined both the datasets based on same columns. Then we divided the next part to ourselves, and one person performed visualisation for combined dataset and other person did Model building to predict landing count of Flights. On this journey of the project, we helped each other whenever we were stuck with any issues, and it helped us to gain more knowledge about the subject and helped us to improve our debugging skills.

Contribution breakdown:

Chandana Haluvarthi Prabhudeva(x22167099): 50 %

Choosing the dataset and loading it into MongoDB and performing ETL process and loaded it into PostgreSQL and performed visualisation for Passenger dataset to gain information from the data, performed model building for combined dataset to predict flight landing count and contributed to the report preparation and Video presentation along with Power point presentation.

Pratheek Gogate(x22159789):50%

Choosing the dataset and loading it into MongoDB and performing ETL process and loaded it into PostgreSQL and performed visualisation for Landing dataset, combined the dataset on the basis of common columns and performed further visualisation to get the insights and the also contributed in the report preparation and Video presentation along with Power point presentation.