



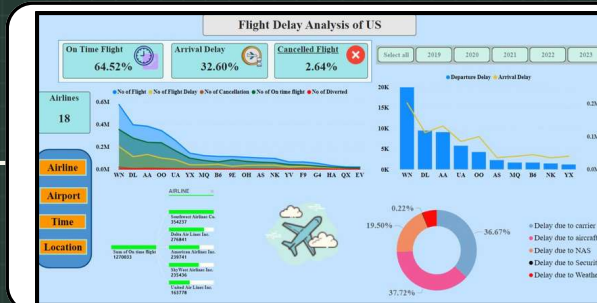
Flight delays and cancellations Of USA



BACKGROUND

Air travel is a critical mode of transportation, connecting people and businesses globally. On the other hand, travelers and airlines may experience inconveniences as a result of flight delays and cancellations. Improving operational effectiveness and customer satisfaction requires an understanding of the patterns and reasons behind these disturbances.

OVERVIEW



This project aims to analyze airline flight delay and cancellation data to provide insights into the challenges faced by the aviation industry. By examining trends, identifying causes, and evaluating impacts, stakeholders can make informed decisions to improve operational efficiency and passenger experience. The analysis covers the period from January 2019 to August 2023, offering a comprehensive understanding of flight disruptions over time.

ANALYSIS QUESTIONS

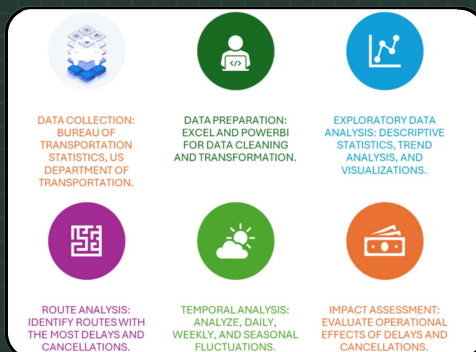
What are the most common reasons for flight delays and cancellations?

How do flight delays vary by airlines and routes?

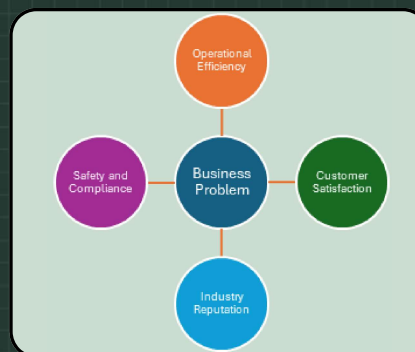
Are there specific times of the day or year when delays are more prevalent?

What trends can be observed in flight delays and cancellations from January 2019 to August 2023?

METHODOLOGY



MOTIVATION



RESULTS/OUTCOMES

Airport:

- Chicago Midway International Airport has faced more number of flight which are delays(arrival and departure), cancelled and diversion

Airline:

- Overall, Southwest Airlines has the most number of delays and cancellation as of 2023.
- The Arrival Delays for all the flights are 32.60%
- The Cancellation rate is around 2.64%
- Around 2020, Flight delays are more when compared to cancellation
- The most On-time route is New York to Chicago but the most delays are made on the return route of this flight