

U.S. International Air Traffic data(1990-2020)

Project Title: U.S. International Air Traffic Analysis

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Project Overview:

The purpose of our project is to analyze the U.S. International Air passenger and International departure data from the year 1990 to 2020. Through this data we are able to analyze valuable information such as airline operations and passenger traffic between U.S. and non-U.S. gateways. This data allows for a comprehensive understanding of various aspects of the U.S. international air travel industry. We found this data set to be interesting because there is a lot that can be learned from analyzing air traffic data. We think this data is important to dig into as there are a lot of interesting variables that go into tracking and managing air traffic.

Objectives:

The objective of our project is to identify the variables such as location, operating group, and reoccurring identification numbers. Identifying these will allow us to infer how the airline traffic has advanced and how it affects the places we are able to reach. Our data has variables that allow us to identify the types of planes and paths they take so we plan to use this information to see how it has changed over the years.

S.M.A.R.T Questions:

1. Growth of air travel:

How air travel has progressed since 1990 focusing on locations added/ reoccurring flights to certain location.

2. Key companies in international air travel

Are there certain airline companies that monopolize the international travel industry/ how this has evolved?

3. Changes in services:

What companies are no longer operating international flights/ how has time affected the types of planes that are flying internationally?

Conclusion:

This project will provide valuable insights into the dynamics of the U.S. international air travel industry, enabling stakeholders to make informed decisions. By analyzing historical data and identifying trends, we aim to contribute to a better understanding of this vital sector and support strategic planning for airlines and related businesses.

Source:

This data comes from the Department of Transportation U.S. International Air Passenger and Freight Statistics Report. We were able to gain access to this data set by downloading it from Kaggle.

91,000 rows of data

<https://www.kaggle.com/datasets/parulpandey/us-international-air-traffic-data/>

The link for the github: <https://github.com/DishaKacha7/>

Intro_Data_Science_Project_1.git