Project title: Analyzing Airline Flight Patterns out San Antonio

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**Project Description/Outline**

This project aims to analyze the heavy flight cancellations and airport shuts patterns during the year's seasons. We built this project to compare airlines' flight patterns out of San Antonio. This project will analyze the datasets to include airports, airlines, locations, price, and cancellation reasons for 322 major US airports and major airline carriers. We are comparing metrics between airlines for the Customer to make informed flight plans.

**Research Question to Answer**

*How did flight cancellation patterns change during seasonal times?*

*Do cheaper flights correlate with higher cancellation rates?*

*Does time of year factor into airline prices?*

**Hypothesis**: There is a higher propensity for flight cancellation and price increases during popular seasonal times.

**Datasets to be used**

*Source*

1.<https://rapidapi.com/amadeus-for-developers-amadeus-for-developers-default/api/flight-delay-prediction/>

2[. https://www.bts.gov/content/national-level-domestic-average-fare-series](.%20https:/www.bts.gov/content/national-level-domestic-average-fare-series%20%20%20%20%20%20%0d)

3.<https://www.bts.gov/browse-statistical-products-and-data/db20>

4. <https://www.bts.gov/topics/passenger-travel>

**Rough Breakdown of Tasks:**

1. Dashboard
2. Leaflet National Map displaying flights out of San Antonio
3. Visualizations