

# Project 2 Proposal

## Flight Cancellation Delays Data at a Glance

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### 1 Project Description:

The purpose of this study is to examine delays and cancellations from six major US Airlines, including American, Delta, Southwest, United, US Airways, Virgin America; we combine the Twitter airline sentiment tweets data.

### 2 Research Questions:

1. Which airline had the most cancellation?
2. Which airline had the most delays?
3. Which airline had the most tweets with negative reviews?
4. Are the negative reviews related to the delays and cancellations?
5. What's the breakdown of to and from locations?

### 3 Background:

The U.S. Department of Transportation's (DOT) Bureau of Transportation Statistics tracks the on-time performance of domestic flights operated by large air carriers. Summary information on the number of on-time, delayed, canceled, and diverted flights is published in DOT's monthly Air Travel Consumer Report and in this dataset of 2015 flight delays and cancellations. Our data set include more than 100 records.

### 4 Tasks Breakdown:

- Our visualization will include Python Flask-powered API, JavaScript, HTML/CSS and MongoDB.
- We will create a dashboard page with multiple charts on the webpage.
- Then we will use Bideo.js for the home page.
- We will a user-driven interaction (drop-downs).