**Project Proposal**

**Group-15**

**Teammates:**

1. Mannava Priyanka Chowdary
2. Balla Jhansi

**Topic:** Analyzing and Visualizing Patterns of Airlines Flight Delays

**Perspective/Promoter (by Jhansi):**

Our work will develop a responsive graphical interface using Tableau where patterns can be identified and understood regarding flight delays. We will be using maps which visualize the distribution of delay on different airports at different regions, and also the Bar charts to compare the delay average times that airlines wait in the airport and highlight the busy routes on which they take the highest amount of time to take off pretty often. Line charts reflect on the duration of the various delays in their occurence over the week or period throughout the year.

**Argument/Critique (by Priyanka):**

Our project will also assess the dashboard’s usability of bringing out advanced insights in a simpler and clearer way. We focus on clarity if the maps, charts and graphs in the dashboard are too complex for us to understand and we check “Do the colours and labels in use make things clear or they instead make the whole situation more complicated?”, we check the interactivity of the dashboard “Is it possible to use the dashboard to find specific information and toggle the information in the report?”. We also check the data accuracy and completeness like “Is the dataset comprehensive and representative of airline operations?”

**Evidence:**

We are going to take data from sources as follows:

* The **Maven Analytics Data Playground** is a collection of data sets on flights, airlines, airports, and delays throughout the United States.
* A report on **CBS News** aired that provides some details about when flights has been cancelled or why they are delayed.

**Significance of the topic:**

The global airline sector faces a number of issues with flight delays, which lead to hindered operations, economic drawbacks, and dissatisfaction among air travelers. In such a situation, By understanding how delays are characterized and what they are attributed to, we can develop improvement strategy aiming at elevating airline performance. Accordingly, this project seeks to identify useful thoughts for airlines and airports management, facilitate ease of travel by reducing inconvenience, applications that help to counter these inefficiencies by tapping into the available data are encouraged.