# DSC640 project Milestone 5

# Supporting Documentation

## Choice of Presentation

We decided to use the material from milestones 3 & 4 with some enhancements for this milestone. The blog and infographics were condensed and were geared toward the public, so it made sense to combine them with audio for this milestone. We moved the chosen material with some enhancements into a power point presentation. We created a moving graph of the number of miles traveled by each country from 1980 to 2020 for this presentation. We decided to refer to this graph at the end of the presentation to show how air travel has increased over the years in almost all countries and highlight the major ones. We aimed to leave something for the audience to remember and wonder about.

## Data Preparation

Data preparation for the existing graphs were described in their respective milestone documentation. We transformed “API\_IS.AIR.PSGR\_DS2\_en\_csv\_v2\_4499051.csv” in Power BI and produced the table shown in figure 1. We then used python and pandas to transform the table to the table shown in figure 2. Figures 3 and 4 show the code and the graph.

Graphical user interface, application, table, Excel

Description automatically generated

Figure - Before transformation

Table

Description automatically generated

Figure -Table after transformation

Graphical user interface, text

Description automatically generated

Figure - code to create moving graph

Chart, scatter chart

Description automatically generated

Figure - Moving graph

## Presenting to General Audience

Presenting to the general audience has challenges of its own. When presenting to a specific audience the challenge is that they are more knowledgeable and can scrutinize the presentation and be more objective. The general audience is the opposite of that, but because of the lack of knowledge about the topic or the methods of presentation, it becomes challenging for the presenter(s) to be concise, clear, informative, and most of all honest. It is not the graphics, the words, colors, sizes, the “oos” and the “awes”. It’s all of them working in harmony. Just like the instruments in an orchestra-all combined give rise to a beautiful concert.

## Lessons Learned

Lessons learned from this project must include data gathering and data wrangling. The quality of data and ability to wrangle it to a form and content that can be turned easily into effective graphs. With respect to this study, I would have gathered data on safety measures taken by airlines and show how different measures correlate with their incidents and accidents. More accurate data on the number of flights and passenger per flight would also have been useful.