**Project Task 1: Dashboard**

Hemalatha Subbiah

College of Science and Technology, Bellevue University

[DSC640-T30: Data Presentation and Visualization](https://cyberactive.bellevue.edu/webapps/blackboard/execute/courseMain?course_id=_512542_1)

Professor. Catherine

December 27, 2023

**Summary**

The dashboard I built can filter Aviation Accident information by year, location, phase of flight and defining event. The Dashboard allows users to display accident information, reports, and statistics more intuitively by selecting one or more filters for year, location, phase of flight and defining event.

Dashboard in Power BI involved several steps, starting from importing data to designing visualizations and arranging them on a canvas. The First step I started with importing data.

I Performed many necessary data cleaning and transformation using the Power Query.

1. Filters to load just the sheets I needed from dataset.
2. Extracted just the data column.
3. Expanded data and looked for null data, improper data.
4. Added common headers for all the sheets.
5. Changes Date column to Date data type.
6. Removed the columns not needed.
7. Removed Error rows and null rows.
8. Sorted the rows based on Accident date.

I merged all the sheets in excel into 1 data set doing the above transformations and loaded the data to main window to start building visualization.

I made the title of the dashboard as “” as all visualizations are related to Airline accidents and fatalities.

Left first panel did bar graph showcasing fatalities vs county and sorted with country that has, more fatalities because of Airline accidents and located the countries with Fatalities with map as well and arranges it in the lower middle of the Dashboard.

Down Left has Funnel chart visualizing fatalities by calendar year.

Moreover, created donut chart pulled from another dataset with has details about different aircraft and fatalities happened in that aircraft type. This may help to analyze certain tryp of aircraft have some chance of accidents. Built a Pie chart that explains about fatalities based on Flight type like whether its passenger flight, cargo, domestic or any parachuting flights.

Thinking of some more improvements and recommendations to make the dashboard more customer friendly and time based trends.