













This branch is **9 commits ahead of** [learn-co-curriculum/dsc-phase-1-project-v3:master](#).

 oblomovite +update readme +update notebook	15e25c3 · 7 minutes ago	
 data	+cleanup presentation +readme summary instructio...	last week
 images	+organize dashboard samples into dedicated folder ...	last week
 .gitignore	+cleanup presentation +readme summary instructio...	last week
 .~dsc-phase1-project_49249.twbr	+cleanup presentation +readme summary instructio...	last week
 CONTRIBUTING.md	add contributing and license	last year
 LICENSE.md	add contributing and license	last year
 README.md	+update readme +update notebook	7 minutes ago
 dsc-phase1-project.twb	+cleanup tableau workbook +include example scree...	last week
 index.ipynb	Created index file for the readme	7 months ago
 requirements.txt	+requirements	last week
View all files		

Phase 1 Project

Summary

Data

The [raw dataset](#) and the derivative [sanitized_dataset](#) are sourced from Kaggle. It is an aggregated report containing information about Incidents and Accidents of various Aircraft.

Business Problem

Determine lowest risk aviation sectors for a company to invest in.

Methodology

- Perform EDA to discover any macro level trends
- Calculate risk using a ratio of Fatal Injuries to total injuries
- Apply this calculation to Engine Types and Purpose of Flight

- Create Visualizations to aid conclusions & findings

Solution & Findings

- Fatal Injuries have generally increased across all airplane-based flights
- Reciprocating and Turbofan are the safest engine types
- Banner Tow, Aerial Application, and Instructional are the safest purposes of flight

Running the Notebook

1. Clone the repository

```
git clone https://github.com/oblomovite/dsc-phase-1-project-v3.git && cd dsc-phase-1-project-v3
```



2. Use the package manager [pip](#) to install the required packages

```
pip install -r requirements.txt
```



3. Run the notebook

```
jupyter notebook
```



Presentation

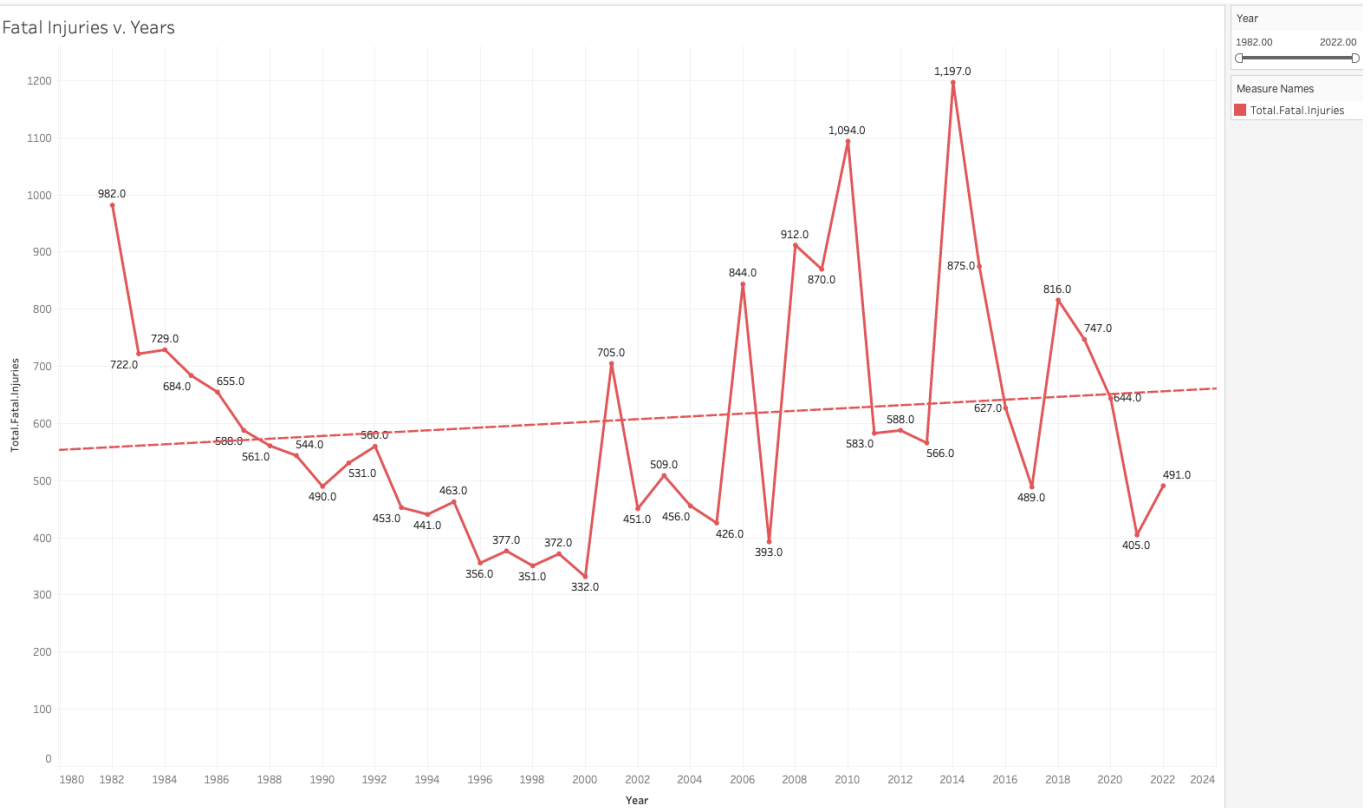
The presentation can be found [here](#).

Tableau Dashboard

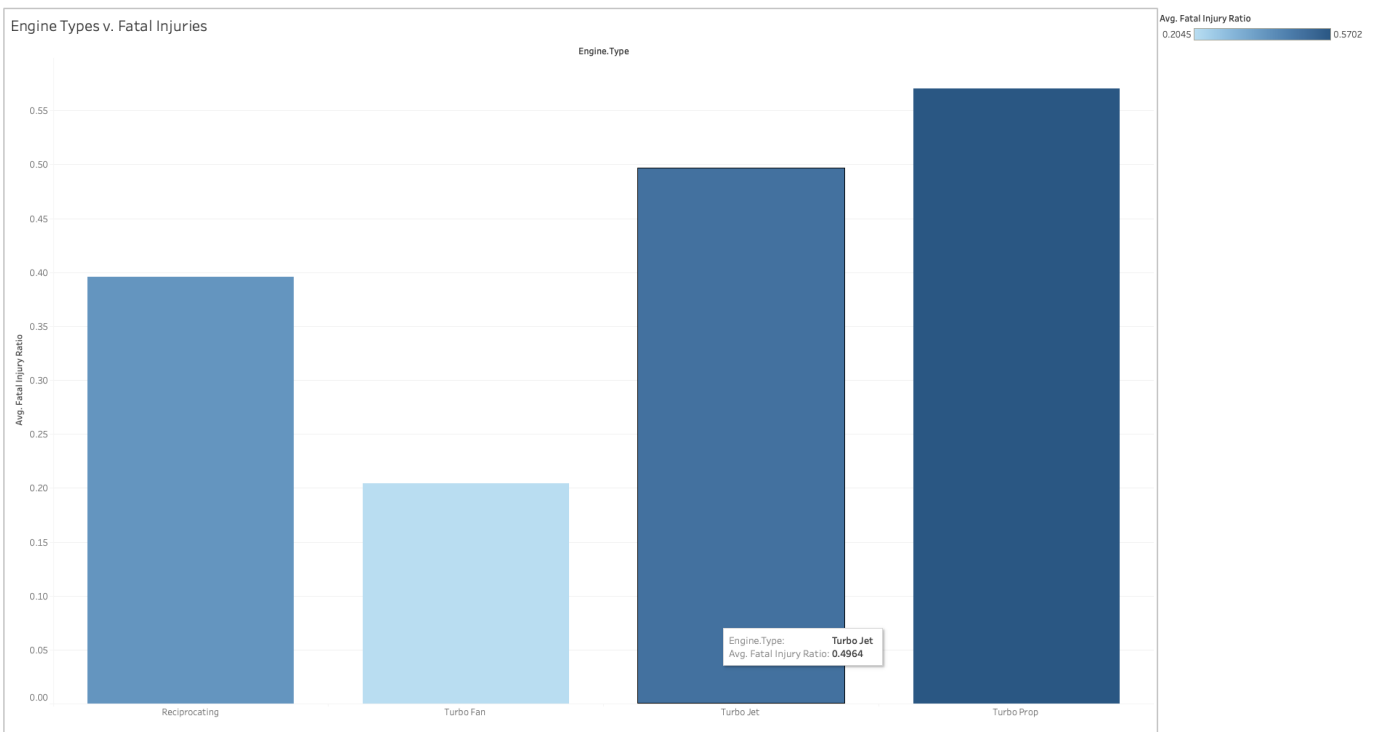
The complete Tableau workbook can be found [here](#).

Examples of the dashboard are here:

Fatal Injuries v. Years



Engine Types v. Fatal Injuries

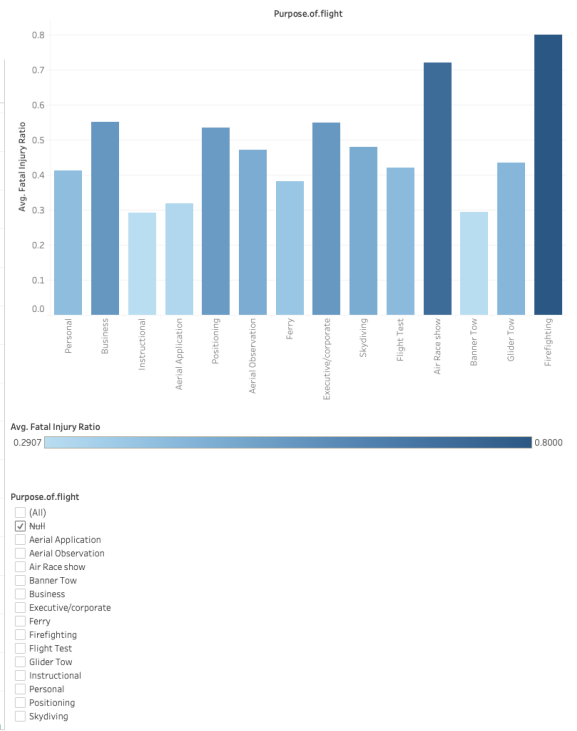


Measure Names
Total.Fatal.Injuries
Total.Non.Fatal.Injuries

Fatal Injuries & Non Fatal Injuries v. PoF



Fatal Injuries v. PoF



Project Structure

- README.md
- requirements.txt
- dsc-phase-1-project-v3.twb
- flatiron-phase-1-project.pdf
- images
- fatal_injuries_years_dashboard.png
- engine_types_dashboard.png
- PoF_dashboard.png

