

Dapash7397-star / Dapash-phase-1-project-v3

<> Code

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Dapash-phase-1-project

View license

Contributing

0 stars

351 forks

0 watching

Branches

Activity

Tags

Public repository

Forked from [learn-co-curriculum/dsc-phase-1-project-v3](#)

1 Branch

0 Tags

Go to file

t

Go to file

Add file

Code

...

This branch is 15 commits ahead of, 1 commit behind learn-co-curriculum/dsc-phase-1-project-v3:master .

Contribute

Sync fork

Dapash7397-star

Update README.md

1c5a685 · 1 hour ago

data	update data and add example	2 years ago
.gitignore	add .gitignore and init repo	2 years ago
CONTRIBUTING.md	add contributing and license	2 years ago
Cleaned_AviationData.csv	data cleaning	19 hours ago
LICENSE.md	add contributing and license	2 years ago
README.md	Update README.md	1 hour ago
example_dashboard.png	update data and add example	2 years ago
index.ipynb	Created index file for the readme	2 years ago
student.ipynb	data cleaning	19 hours ago

README

Contributing

License

Aviation Risk Analysis Project

Overview

This project analyzes aviation accident data to provide insights into aircraft safety and risk levels. The analysis was conducted using Python, Pandas, and Tableau to clean, analyze, and visualize aviation accident data.

The ultimate goal is to identify patterns that can help business stakeholders make informed decisions about entering the aviation industry.

Business Understanding

The primary objective of this analysis is to determine the **lowest-risk aircraft** for a company planning to enter the aviation industry.

Stakeholders

- **Business executives:** Need to understand risk levels before investing in aircraft.
- **Safety officers/regulators:** Want evidence-based insights on aircraft risks.
- **Investors:** Require data-driven justifications for strategic decisions.

Key Business Questions

1. Which types of aircraft are most associated with fatal accidents?
2. How have aviation accidents trended over time?
3. Which regions or countries report the highest number of accidents?

Data Understanding and Analysis

Source of Data

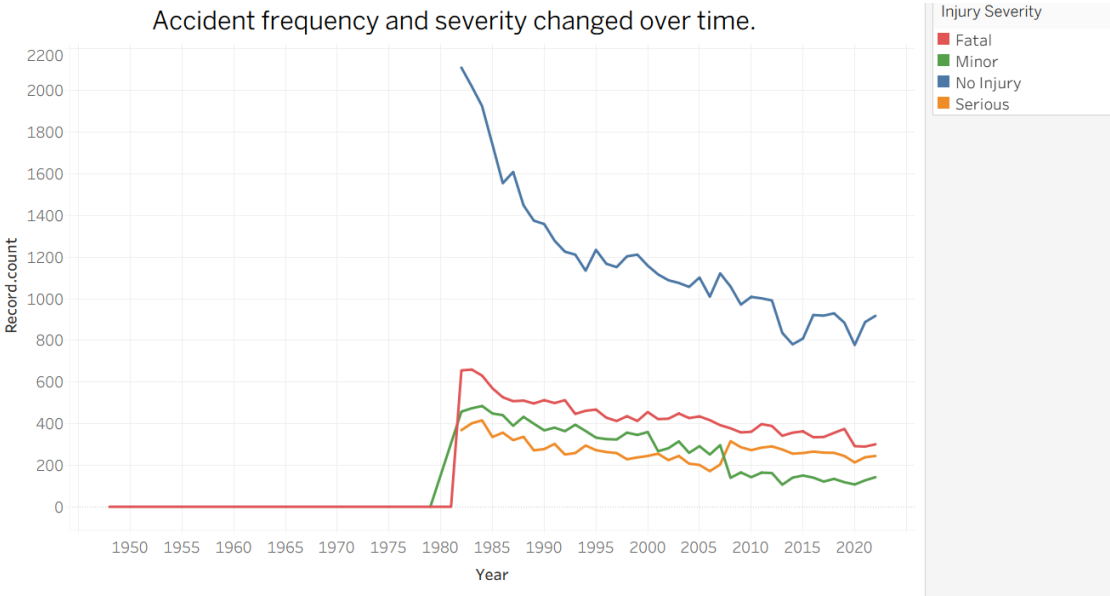
- **Dataset:** National Transportation Safety Board (NTSB) aviation accident data (1962–2023).
- **Link:** [NTSB Accident Data](#)

Description of Data

- **Columns:** Year, Country, Aircraft Damage, Fatalities, Injuries, Aircraft Type, etc.
- **Size:** Civil aviation accidents and selected incidents across the United States and international waters.
- **Cleaning & Preparation:** Missing values handled by imputation/removal, categorical variables standardized.

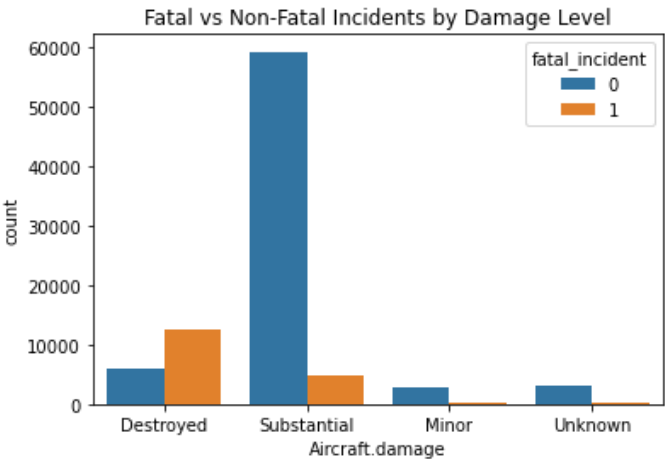
Visualizations

1. Yearly Accident Trends



A line chart showing the number of accidents per year, categorized by injury severity.

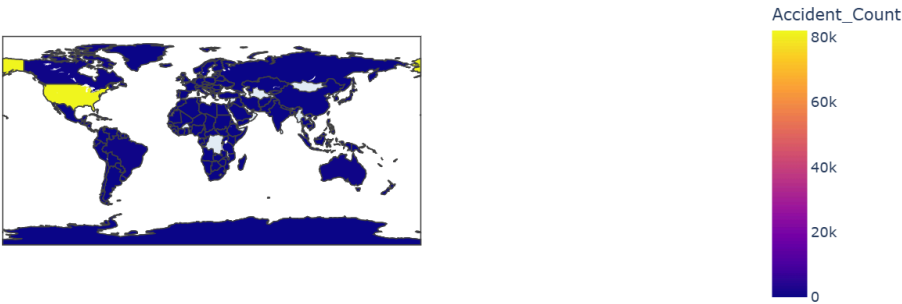
2. Aircraft Damage vs. Fatal Incidents



A stacked bar chart comparing aircraft damage categories against fatal incidents.

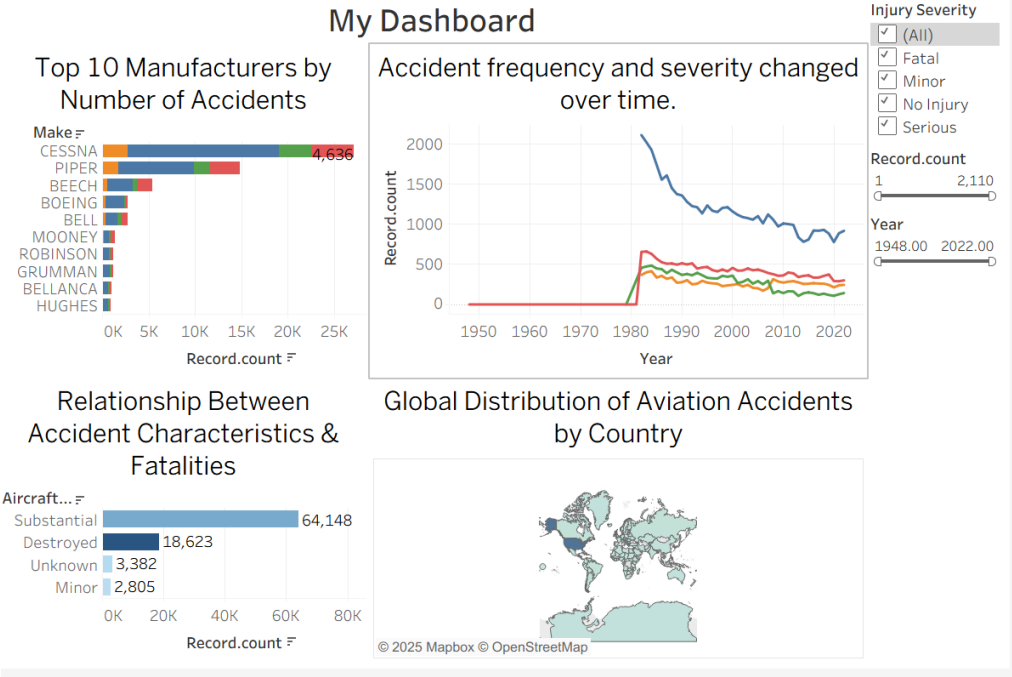
3. Geographic Distribution of Accidents

Aviation Accident Frequency by Country



A map visualization showing accident counts by country.

My Tableau Dashboard



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Languages

● Jupyter Notebook 100.0%