Madhuri Basava 07/12/2024 Data Presentation and Visualization DSC640-T302

# **Air Line Safety Blog**

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DSC640-T302: Data Presentation and Visualization

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**Air Line Safety Blog** 

**Topic** 

Flying In the Air: Advancements in Air Line Safety

Introduction

Air travel is one of the safest modes of transportation. But when it comes to accidents, there is

global attention because of the severity and number of deaths. This blog will delve into the

details of airline safety, shedding light on the precautions to reduce Airline incidents over time

and will keep millions of travelers safe every day.

**Airline Incident Analysis:** 

From the analysis of the various airline incidents that happened over the past few years,

There were many precautions taken to prevent such incidents.

**Continuous Updates and Improvements:** 

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We adhere to the improved safety standard guidelines given by the regulatory bodies.

**Improved Aircraft Design:** 

Modern planes are designed to be resilient to lightning strikes and to continue flying safely even

if one of their engines fails.

Automation

Autopilot systems can manage the aircraft during much of the flight, reducing the workload on

pilots and enhancing safety. Real-time data transmission allows ground control to monitor flight

progress and address any issues promptly.

**Predictive Maintenance:** 

Predictive maintenance uses data analytics and machine learning to predict potential failures

before they occur. Sensors on the aircraft monitor various components, sending data to

maintenance teams who can perform repairs proactively. This approach minimizes the risk of in-

flight malfunctions and ensures the aircraft is always in optimal condition.

**Training and Proficiency:** 

Pilots undergo extensive training that includes handling a wide range of emergency scenarios.

Flight attendants are more than just hospitality experts; they are trained first responders. Their

training includes emergency evacuation procedures, first aid, and dealing with in-flight

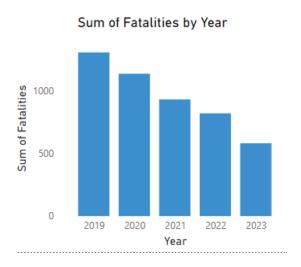
emergencies like fires or medical issues. This comprehensive training equips them to handle

critical situations and assist passengers effectively.

### **Passenger Safety Briefings**

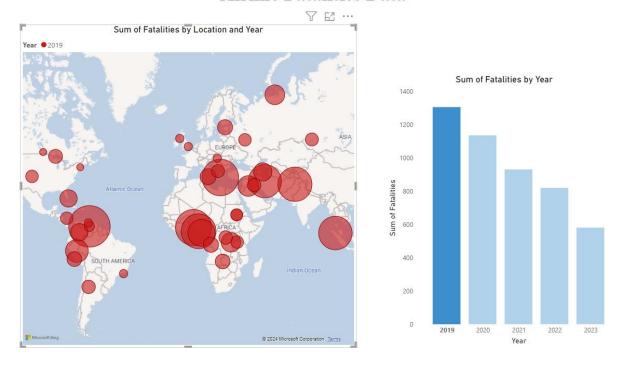
Pre-flight safety briefings and demonstrations by the cabin crew are essential for passenger safety. These briefings inform passengers about emergency exits, life vests, oxygen masks, and how to brace for impact. Paying attention to these briefings can significantly improve survival rates in the unlikely event of an emergency.

By Following these guidelines, we see that airline incidents decreased drastically over the years. Below are the charts related to airline incidents over the years:



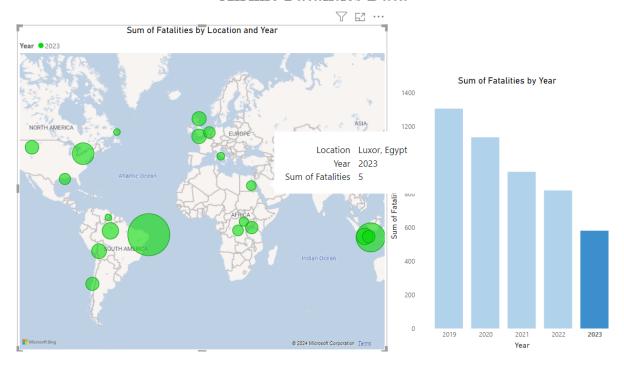
As we see from the above chart, airline fatalities have decreased in recent years because of the safety precautions taken to reduce accidents and fatalities.

# **Airline Fatalities Data**



The above graph displays the Airline Fatalities in the year 2019.

## **Airline Fatalities Data**



The above graph clearly shows the reduction in number of fatalities in the year 2023.

## Conclusion

From the above graphs, we can conclude that airline incidents are getting reduced over time because of the precautions taken for the safety of everyone.

#### References

Heart Health prediction dataset is retrieved from the Kaggle website:
Airplane Crashes [Data Visualization] (kaggle.com)

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• Airplane Crashes 1908-2009: Airplane Crashes 1908-2009 - dataset by hhaveliw data.world