

# AIR TRAGEDY

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# The Tragedy of flight : A Comprehensive Crash Analysis



## A Project Report

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SALEM-10

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# **INTRODUCTION**

## **1.1. Overview**

Plane travel is the fastest modes of transportation. However the accident may happen. Accidents rate may reduce in recent years, but in private airline and helicopter flights may change that trend. The national transportation safety board estimated a total of nearly 24 million flights hours of these 24 million hours, 9.8 aviation accidents per one lakh hours in 1994. It is high for private flights but document for private flights are more difficult due to proper non reporting.

## **1.2.Purpose**

The purpose of conducting aviation analysis used to determine information about the aircraft and a system cause of error for that incident and any other relevant factors. The data is collected from airplane crash. The collected data is analysed through tableau to identify any potential cause of accident and also is easy visualization of complete report. These visualization report preventing the similar accidents in future

# problem Definition & Design Thinking

## 2.1. Empathy Map



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## 2.2. Ideation and Brainstorming Map

**Template**


Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

10 minutes to prepare  
1 hour to collaborate  
2-8 people recommended

[Share template feedback](#)

**Before you collaborate**

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

10 minutes

- Team gathering**: Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.
- Set the goal**: Think about the problem you'll be focusing on solving in the brainstorming session.
- Learn how to use the facilitation tools**: Use the Facilitation Superpowers to run a happy and productive session.

[Open article](#)

**Define your problem statement**

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

5 minutes

**PROBLEM**

A significant number of aviation tragedies are caused by human error. Mechanical Failures such as weather, mechanical failures and human error also plays role in many aviation tragedies.

**Key rules of brainstorming**

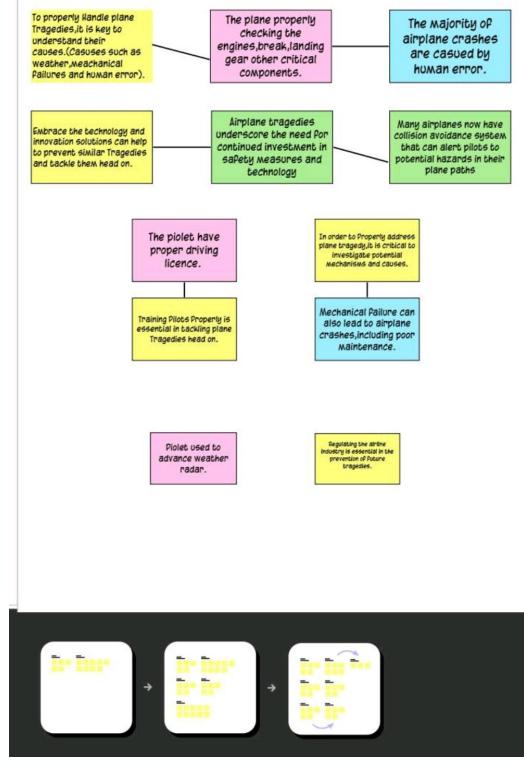
To run a smooth and productive session

- Stay in topic.
- Encourage wild ideas.
- Defer judgment.
- Listen to others.
- Go for volume.
- If possible, be visual.

**Group ideas**

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

20 minutes



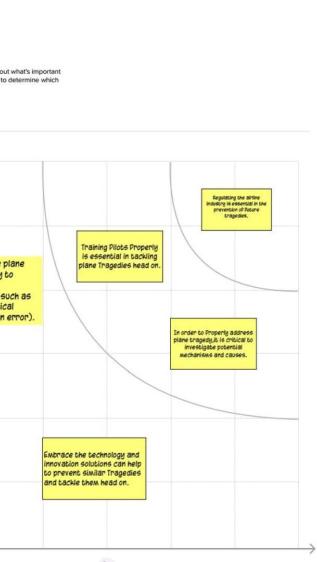
**Brainstorm**

Write down any ideas that come to mind that address your problem statement.

10 minutes

Arun Kumar	Azhagilmathan	Anandhi	Ganapathi
Advanced in technology and innovation than ever before	The pilot have proper driving licence	weather can also cause mechanical failures in aircraft when it builds upon weather on aircraft	The plane properly checking the engines, break, landing gear other critical components
Advanced in technology and innovation than ever before	The pilot have proper driving licence	Mechanical failure can also lead to airplane crashes including poor maintenance	The majority of airplane crashes are caused by human error

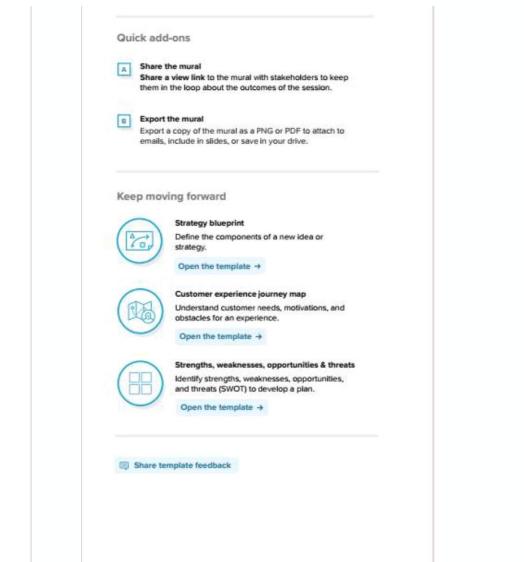
[Open example](#)



**Prioritize**

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

20 minutes



**Quick add-ons**

- Share the mural**: Share a view link to the mural with stakeholders to keep them in the loop about the outcomes of the session.
- Export the mural**: Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save in your drive.

**Keep moving forward**

- Strategy blueprint**: Define the components of a new idea or strategy.
- Customer experience journey map**: Understand customer needs, motivations, and obstacles for an experience.
- Strengths, weaknesses, opportunities & threats**: Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.

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# RESULT

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### Airplane Crash analysis

### Airplane Crashes and Fatalities Since 1908

[Get Started](#) [Watch Video](#)

### About Project

Exploring plane tragedy through thought and emotion requires connecting with it on an emotional level by understanding the feelings caused. Examining the fear, loss, and grief associated with such tragedies deepens our compassion and strengthens the need to proactively create safety measures.

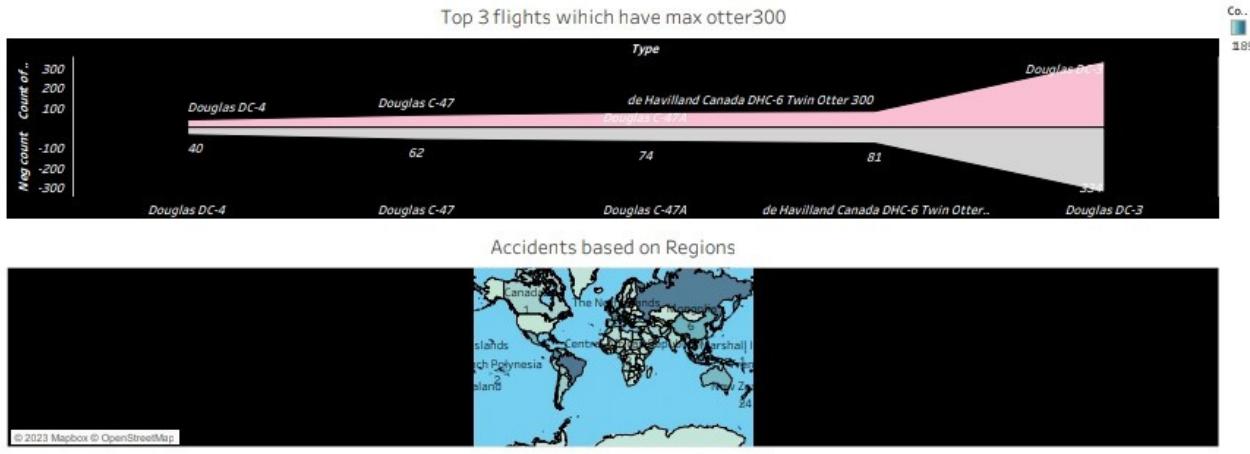
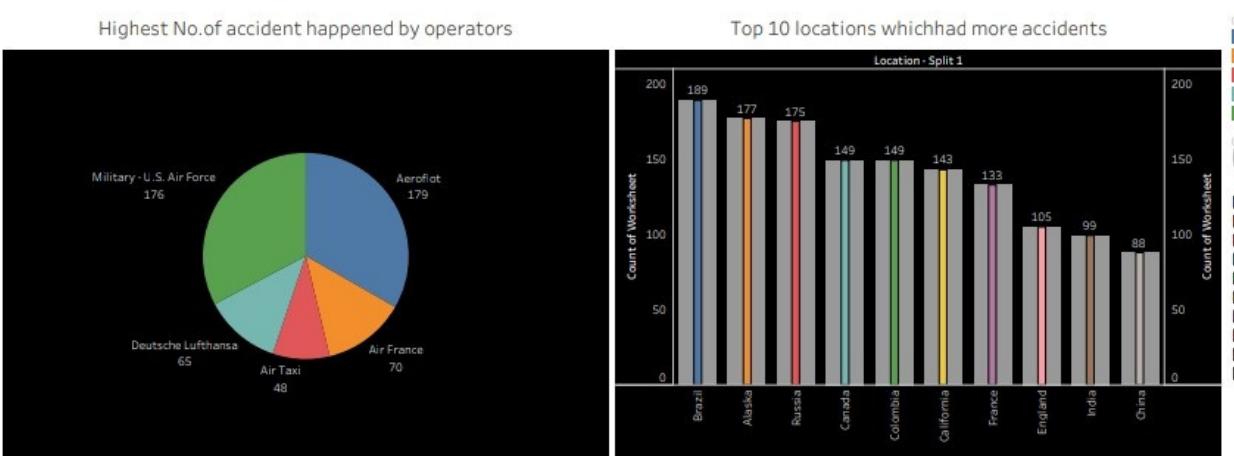
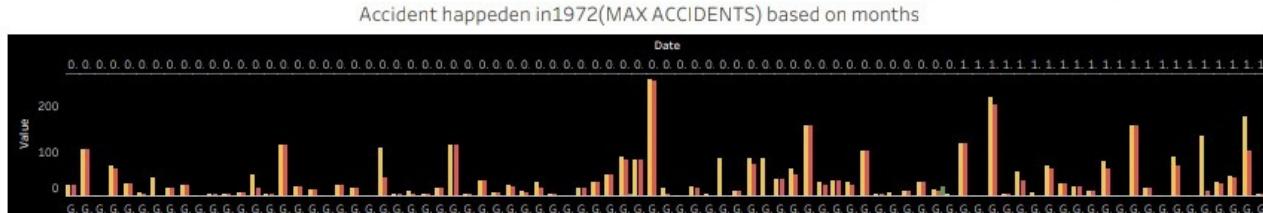
- a) a person is fatally or seriously injured,
- b) the aircraft sustains significant damage or structural failure, or
- c) the aircraft goes missing or becomes completely inaccessible

an emotional level by understanding the feelings caused. Examining the fear, loss, and grief associated with such tragedies deepens our compassion and strengthens the need to proactively create safety measures.

- a) a person is fatally or seriously injured,
- b) the aircraft sustains significant damage or structural failure, or
- c) the aircraft goes missing or becomes completely inaccessible.

This dataset includes:

- All civil and commercial aviation accidents of scheduled and non-scheduled passenger airliners worldwide, which resulted in a fatality (including all U.S. Part 121 and Part 135 fatal accidents)
- All cargo, positioning, ferry and test flight fatal accidents.
- All military transport accidents with 10 or more fatalities.
- All commercial and military helicopter accidents with greater than 10 fatalities.
- All civil and military airship accidents involving fatalities.
- Aviation accidents involving the death of famous people.



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## **ADVANTAGES:**

Increased safety measures

Improved Aviation Technology

improved National security Measures

Tightened aircraft maintenance standards.

Enhanced passenger safety protocols

## **DISADVANTAGES:**

There is no age data of plane

Didn't have pilot experience data

Didn't have the data of flying duration of flight

## **APPLICATION:**

Importance of Incident Analysis

Aviation Regulations and Safety Standards

Human Factor in Aviation Safety

Technical Errors and Failures

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## **CONCLUSION:**

The maximum air plane has been happened in the year in 1972. The u.s.air force is the major operator that forces many air crash all over the world.In country wise top most that faces many passengers air crash in Brazil. Tabuleau software provide the in-depth understanding of air plane crash with good visualization and also provides sufficient knowledge in a single dashboard.

## **FUTURE SCOPE:**

The data of plane age, plane traveling duration and pilot experience data would be good to have all this data in future.

*Thank You*