

Data analyst long term internship project

The tragedy of flight + → comprehensive crash analysis

Team leader: Neelakantam Venkatesh

Team member:

Mysore Soniya

Mothukuri Karthik

Sarapathi Dhanunjayaram

Introduction

Airline accident analysis is performed to determine the cause of errors to determine the cause of errors.

Once an accident has happened.

In modern aviation industry it is also used to prevent an accident from

Order to prevent an accident from

happening.

Many models have been the not used the accident investigation but also the

In the aviation industry the human error is the major the cause of accidents. About 38% of 329%

major airline crashes.

The general aviation crashes were related to pilot error.

Reason's Model, commonly referred to as the Swiss cheese model, was based on Reason's approach that all organizations such work together to ensure a safe and efficient operation.

All human and mechanical elements of the approach that all the organizations should work of safe flight ensure. The airplane crashes, although rare, can have catastrophic consequences, leading to loss of life, property damage, and significant economic impacts.

Understanding the causes of crashes is crucial for improving aviation safety and preventing future accidents.

This analysis aims to delve into the methodologies used in them.

Methodologies in airplane crash

-forensic investigation

Crash investigation typically follows a systematic approach to gather evidence from the crash site, including engines, avionics, flight controls, and structural components.

The analysis often involves collaboration between manufacturers and regulatory agencies.

Environment factors

Weather conditions, air traffic control communications, and terrain features are considered in analyzing environmental factors. Poor visibility, turbulence, or wind changes pose significant challenges to pilots.

Common-theory of airplane crash analysis

Pilot errors

One of the most common theories in airplane crash analysis is pilot error, which man can conclude if pilot error, which man can conclude mistakes in the judgement/decision making.

Mechanical failure

Aircraft systems and components are susceptible to malfunctions or failures.

The hydraulic system failure or electrical problems are examples of mechanical failures that investigators consider.

Weather related factors

Adverse weather conditions, such as icing, thunderstorms, strong winds or low visibility can pose significant challenges to the flight visibility.

weather-related factors +

weather conditions such as icing, thunderstorms, strong winds, or low visibility, can pose significant challenges to the pilot. Often found on low pilots.

Regulatory Oversight +

In some cases, airplane crashes may be attributed to shortcomings in regular oversight. The maintenance procedures, the enforcement of the safety regulations.

challenges in airplane crash analysis +

1. complexity of evidence +

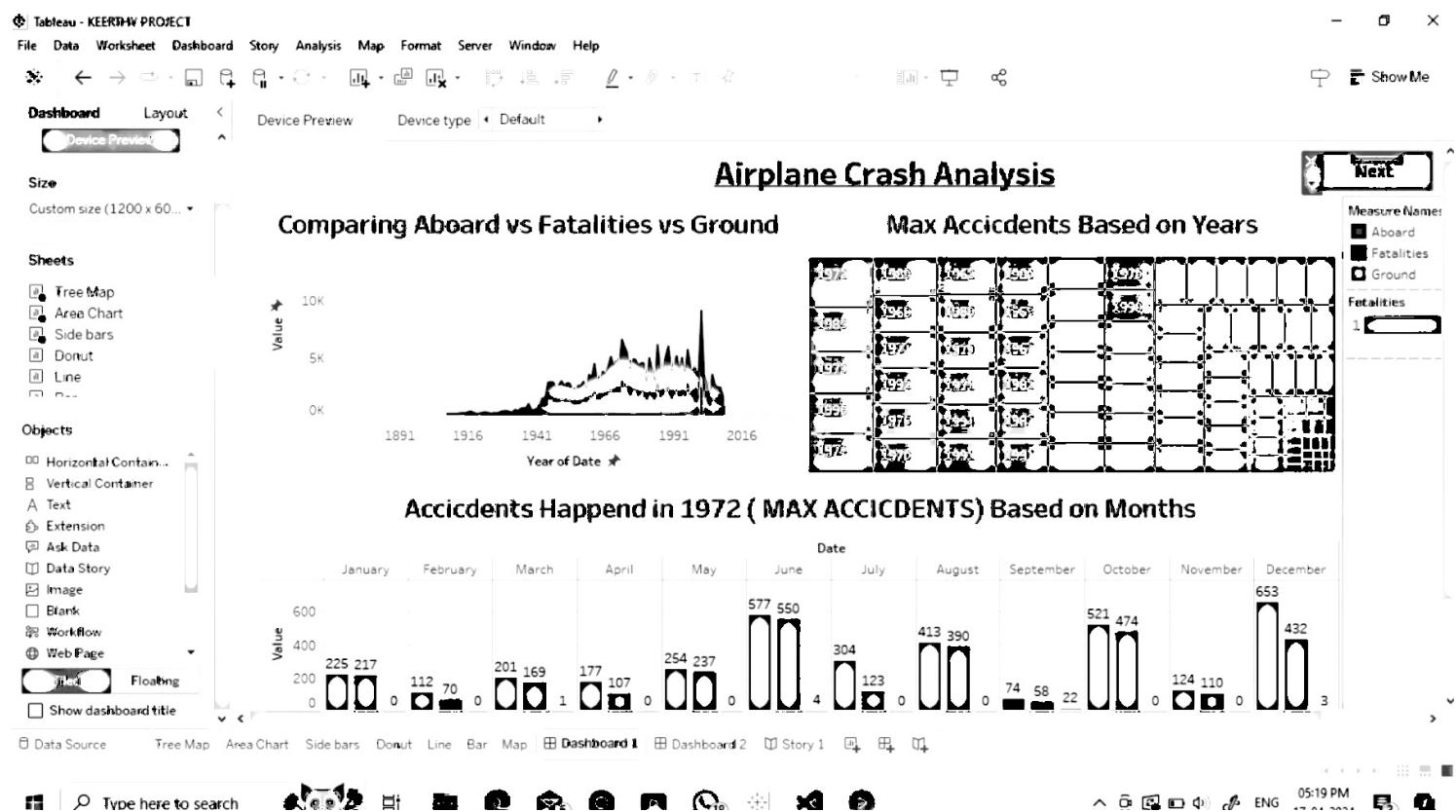
Cash scenes are often chaotic environments with extensive debris fields, making the challenging to collect and preserve evidence. Flight data recorders and cockpit voice records may be damaged required.

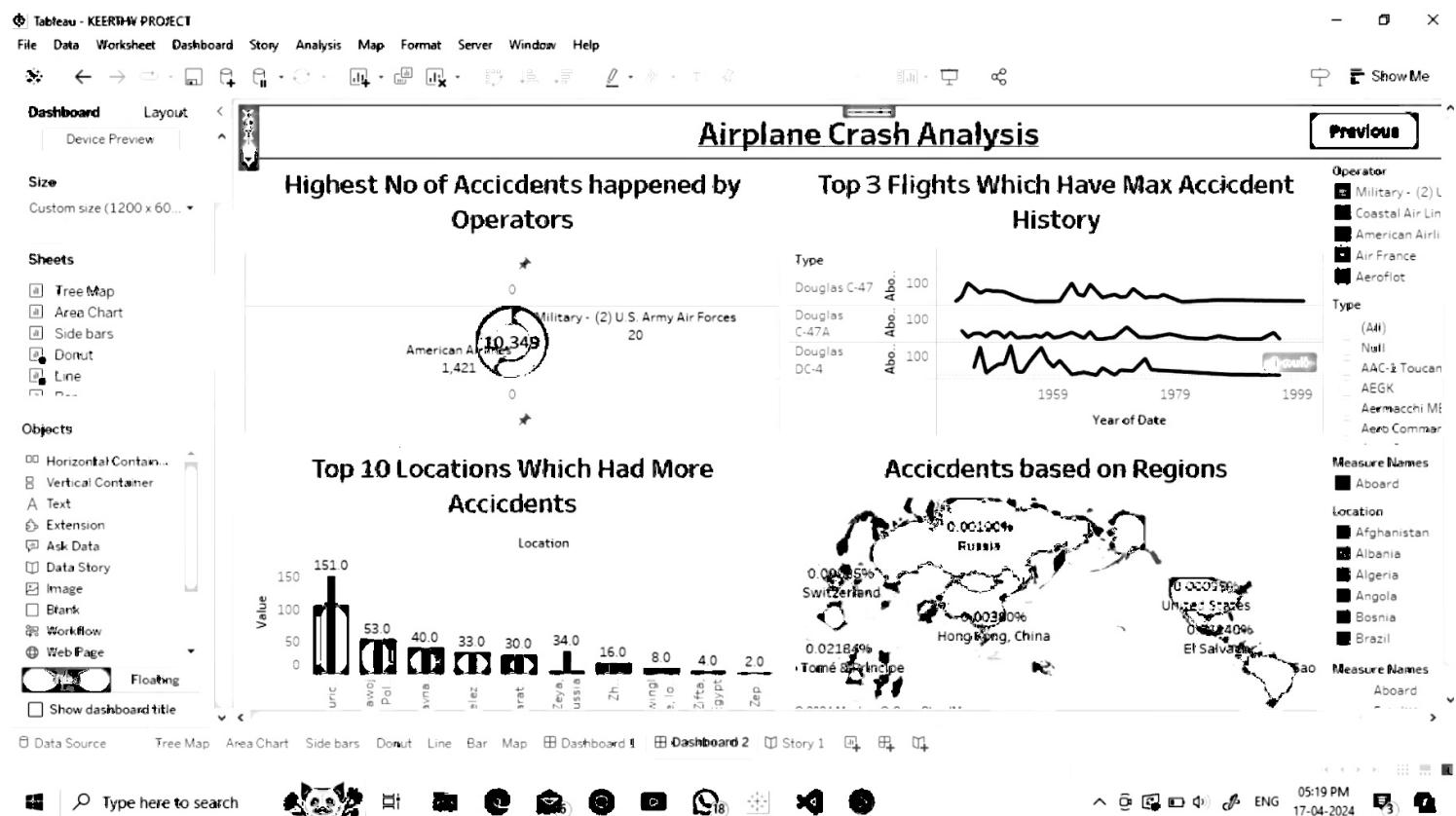
1. Recommendations

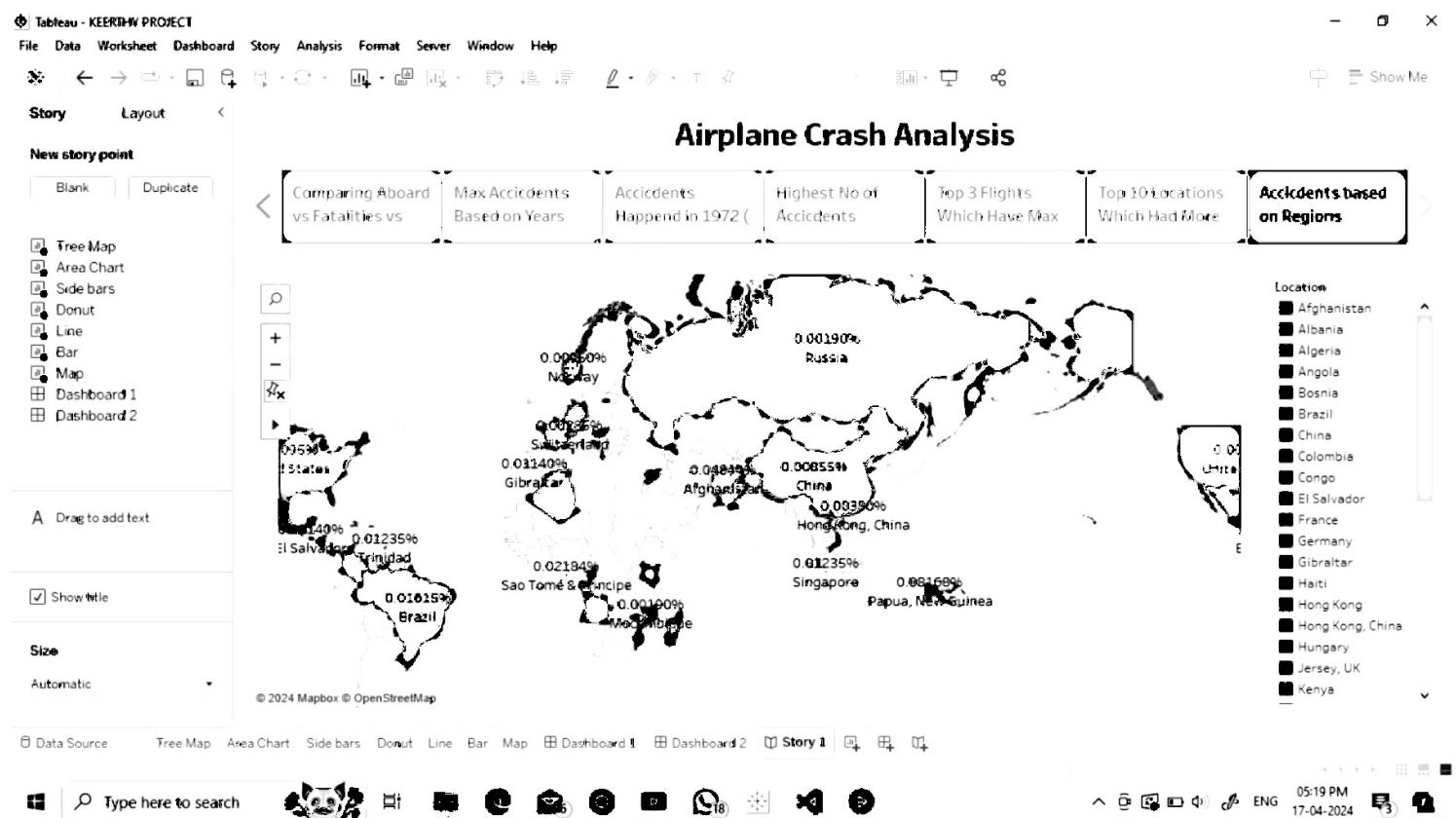
- Suggestions for improving safety measures or procedures
- Recommendations of the prevention of similar accidents or its future.

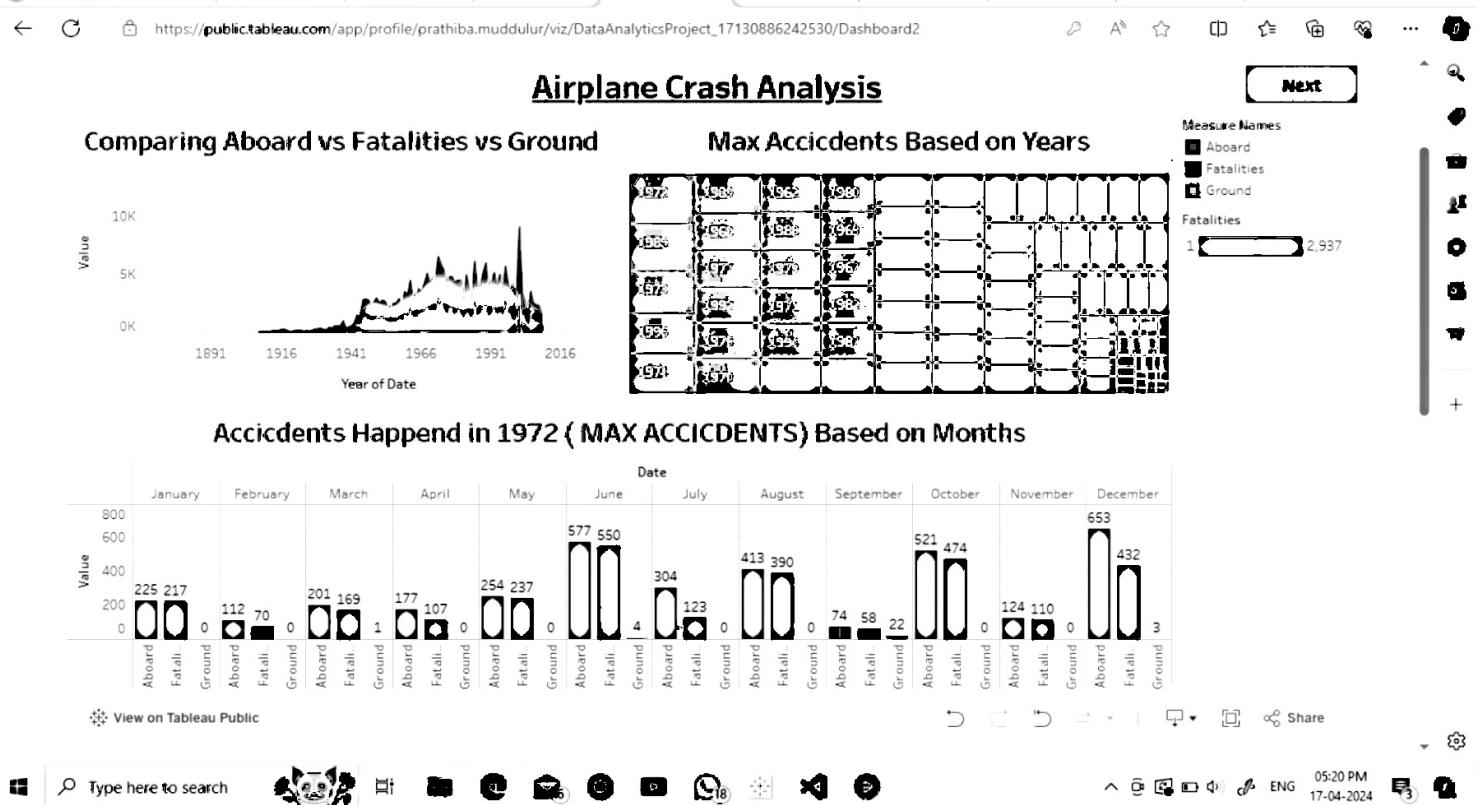
10) Conclusion

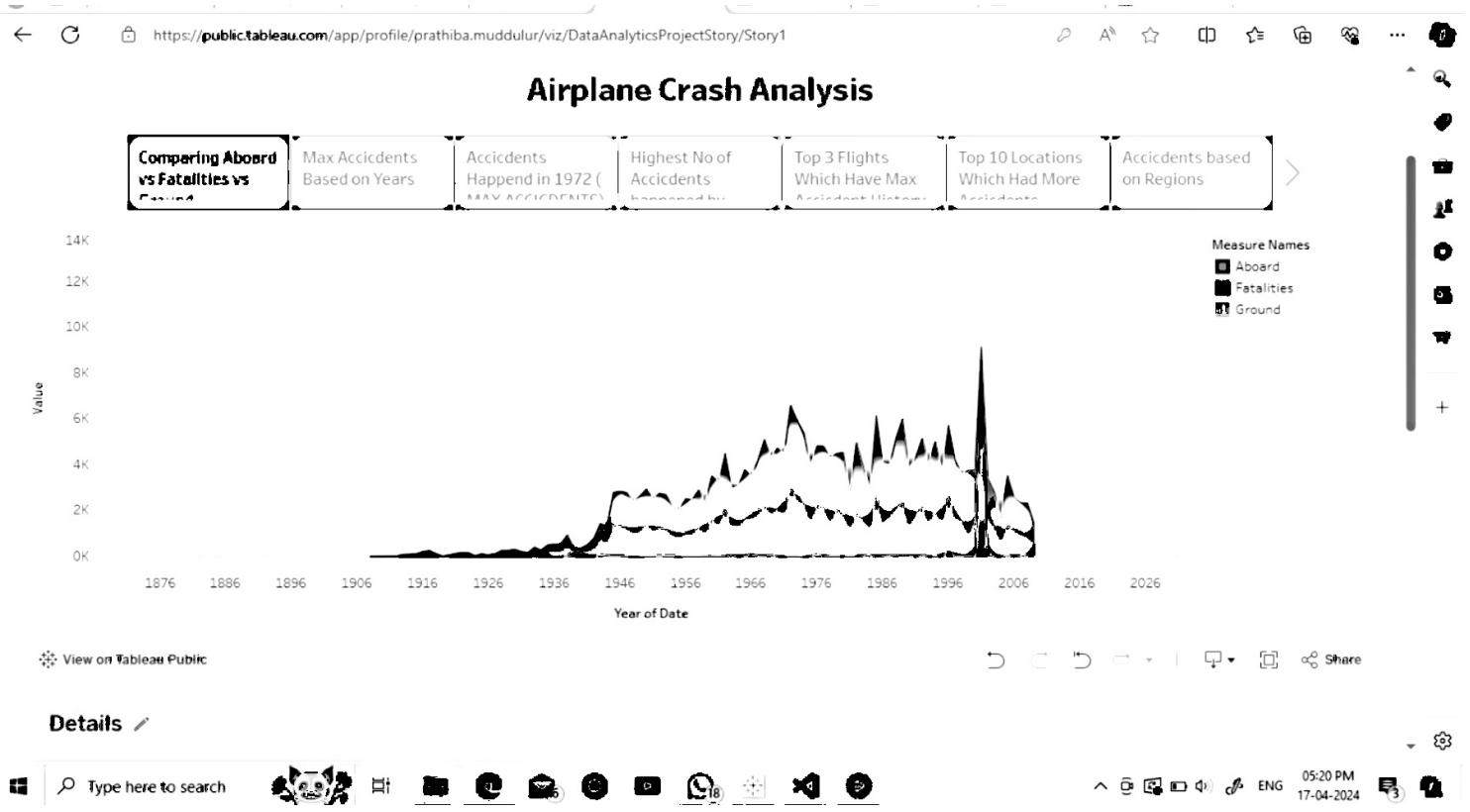
- Summary of key findings
 - Final thoughts on the crash analysis.
- Remember to provide thorough evidence of the analysis for each section, drawing on official reports, data and expert opinions where possible. Additionally, maintain a professional and objective tone throughout the analysis.

















Data Analyst

[Home](#) [About](#) [Dashboard & Story](#) [Team](#) [Drop Down](#) [Contact](#) [Get Started](#)

Airplane Crash Analysis

Airplane Crashes and fatalities since 1908

[Get Started](#)



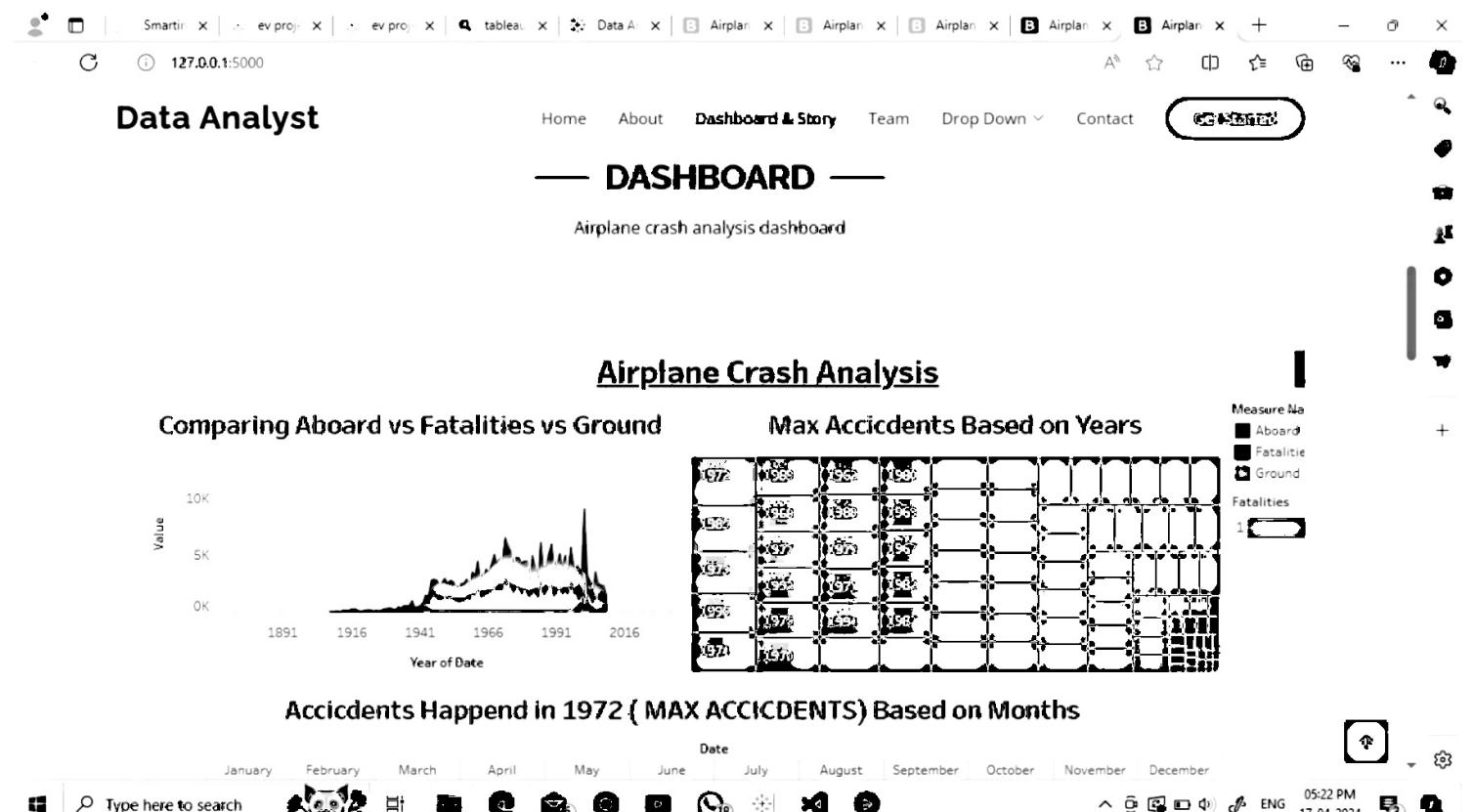
The screenshot shows a web browser window with multiple tabs open, all related to the same project. The tabs include 'Smarter...', 'ev proj...', 'ev proj...', 'ev proj...', 'tableau...', 'Data A...', 'Airplan...', 'Airplan...', 'Airplan...', 'Airplan...', 'Airplan...', and 'Airplan...'. The main content area displays a 'Data Analyst' dashboard. At the top, there is a navigation bar with links for 'Home', 'About', 'Dashboard & Story', 'Team', 'Drop Down', 'Contact', and a prominent 'Get Started' button. Below the navigation is a section titled '— ABOUT PROJECT —'. On the left, there is a detailed description of an aviation accident as defined by Annex 13 of the Convention on International Civil Aviation. On the right, there is a paragraph about physical defects experienced after air crashes, followed by a 'Learn More' button. The bottom of the screen features a toolbar with various icons for file operations like search, copy, paste, and save, along with system status indicators for battery level, signal strength, and time ('05:21 PM').

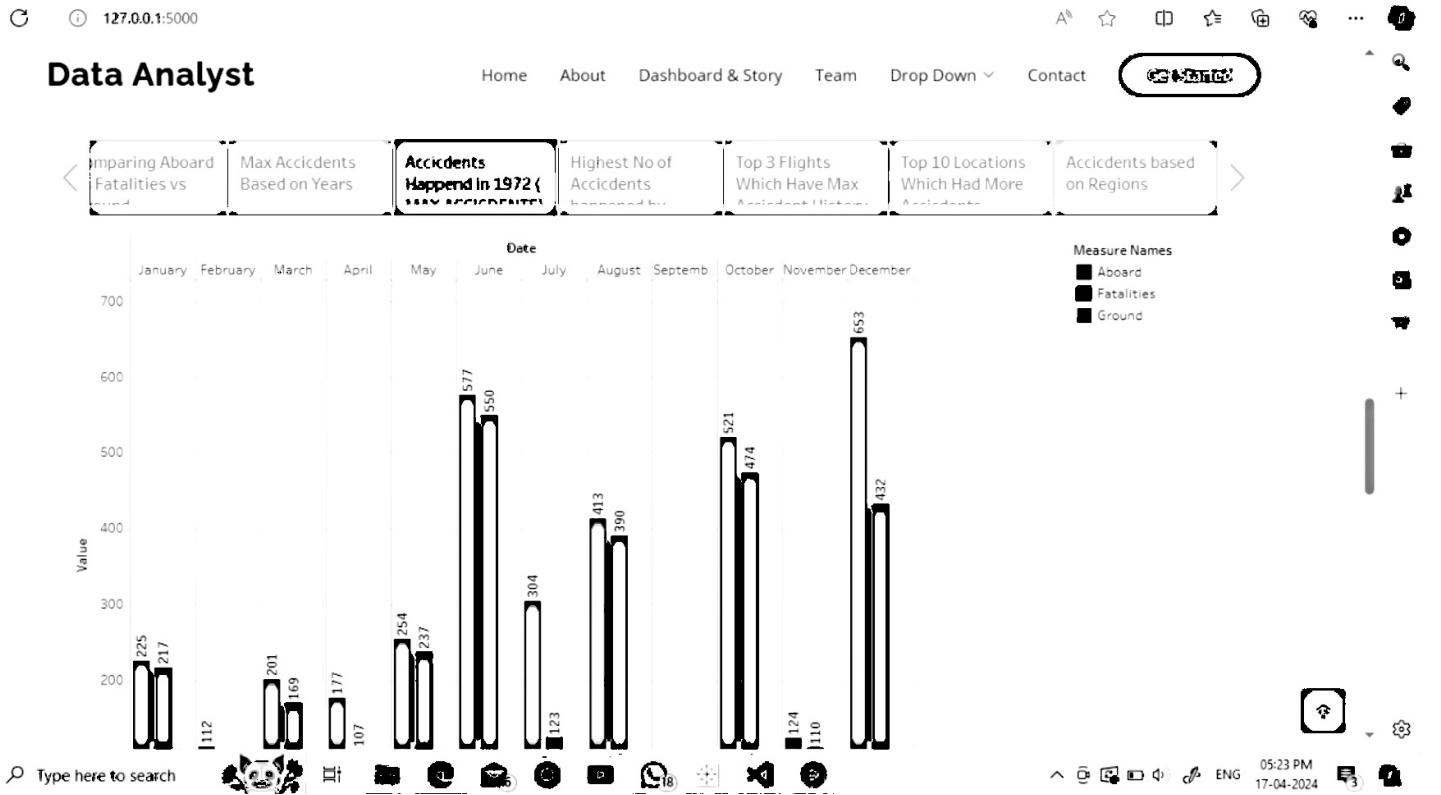
An aviation accident is defined by the Convention on International Civil Aviation Annex 13 as an occurrence associated with the operation of an aircraft, which takes place from the time any person boards the aircraft with the intention of flight until all such persons have disembarked, and in which (a) 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.^{1} Annex 13 defines an aviation incident as an occurrence, other than an accident, associated with the operation of an aircraft that affects or could affect the safety of operation.

☞ Inadequate preflight preparation and/or planning.

☞ Failure to obtain and/or maintain flying speed.

☞ Failure to maintain direction control.





Smartir | ev proj | ev proj | tableau | Data A | Airplan | Airplan | Airplan | Airplan | Airplan | + - X

127.0.0.1:5000

Data Analyst

Home About Dashboard & Story Team Drop Down Contact [Logout](#)

— TEAM —



Karthik Mothukuri
Team Member



N. Venkatesh
Team Leader



S.Dhanunjaya
Team Member



Mysore Sonia
Team Member

Type here to search          

5 05:23 PM
17-04-2024 ENG

The screenshot shows a web browser window with multiple tabs open at the top, including 'Smartin', 'ev proj...', 'ev proj...', 'tableau', 'Data A...', 'Airplan...', 'Airplan...', 'Airplan...', 'Airplan...', 'Airplan...', and 'Airplan...'. The URL in the address bar is '127.0.0.1:5000'. The main content area displays a contact form for a 'Data Analyst'.

Data Analyst

Home About Dashboard & Story Team Drop Down Contact **Send Email**

— CONTACT US —

Data Analyst

Aviation accident analysis is performed to determine the cause of errors once an accident has happened. In the modern aviation industry, it is also used to analyze a database of past accidents in order to prevent an accident from happening. Many models have been used not only for the accident investigation but also for educational purpose.

Tirupati
Andhra Pradesh, India
Your Name

Students@vidyanikethan.edu
Your Email

7670813211
Subject

Message

Send Message

Profile icons for Twitter, Facebook, Instagram, and LinkedIn are visible on the left.