THE TRAGEDY OF FLIGHT: A COMPREHENSIVE CRASH ANALYSIS



Miniproject on

THE TRAGEDY OF FLIGHT: A COMPREHENSIVE CRASH ANALYSIS BACHELOR OF SCIENCE

in

Mathematics

By

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RAJAPALAYAM RAJUS 'COLLEGE

A Linguistic Minority Co-Educational Institution & Affiliated to Madurai Kamaraj University

Re-Accredited B++by NAAC (CGPA 2.93) in III cycle RAJAPALAYAM

The Tragedy of Flight: A Comprehensive crash analysis



1.INTRODUCTION

1.1.OVERVIEW:

When a person has been seriously injured or killed in a small private plane crash or a commercial airplane crash, family members will be looking for an experienced attorney to handle their aviation accident lawsuit. The law firm of LeesfieldScolaro has the knowledge, expertise and resources necessary to handle complex aviation cases successfully. Aircraft accidents require a specialized investigative skill and extensive knowledge of aviation law. One of our trial

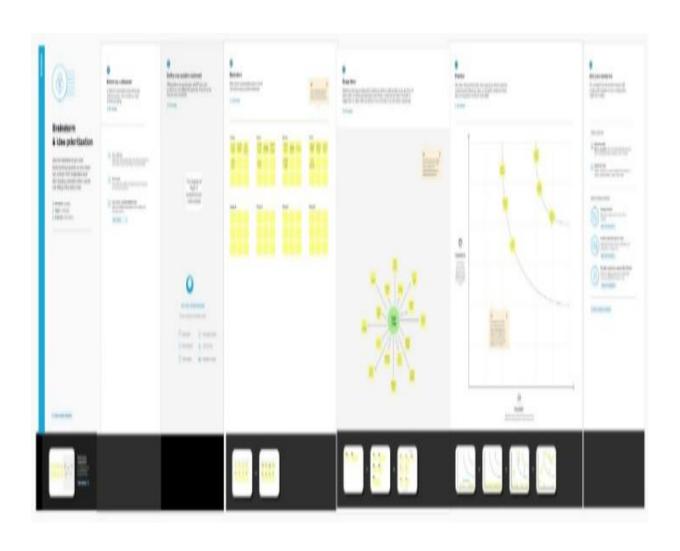
atto	rneys, Mark A. Sylvester, is a licensed pilot who has successfully handled
mar	ny aviation cases.
1.2.	PURPOSE:
	In this project we are trying to analysis the flight areah data and able to
extr	In this project we are trying to analysis the flight crash data and able to act some insights from the data .
CALI	act some insignes from the data.

2. PROBLEM DEFINITION & DESIGN THINKING:

2.1.EMPATHY MAP:



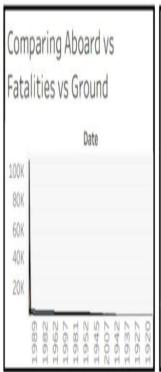
2.2.IDEATION& BRAINSTORMING MAP:

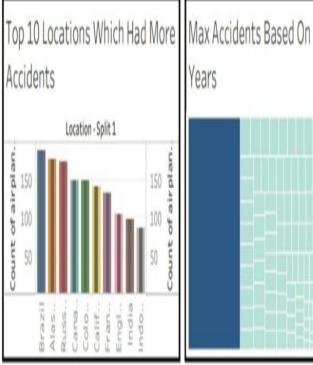


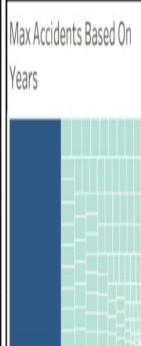
3.RESULT:



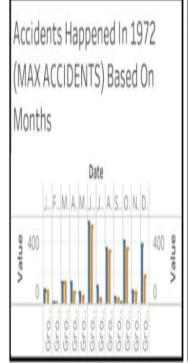
3.1. DashBoard:

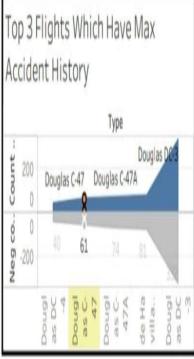








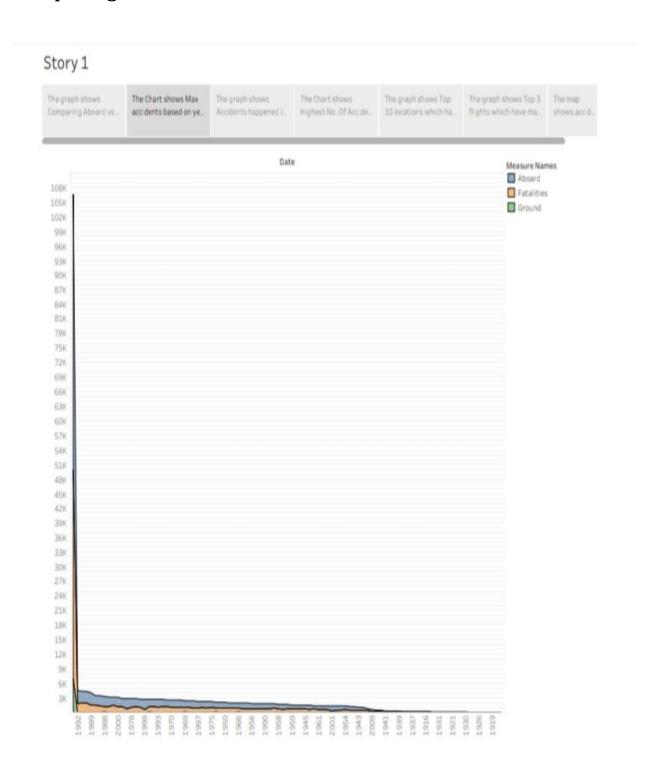




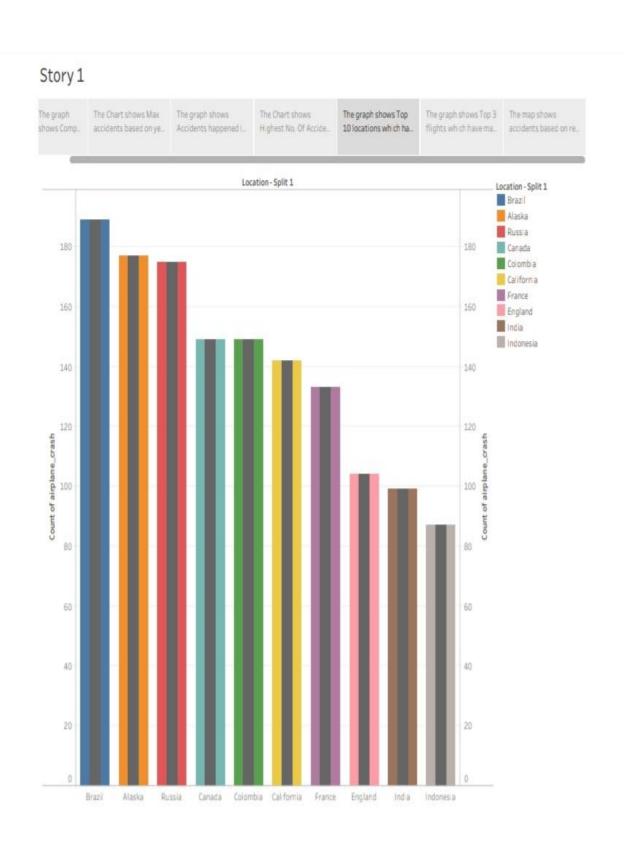


3.2.Story:

Comparing Aboard vs Fatalities vs Ground



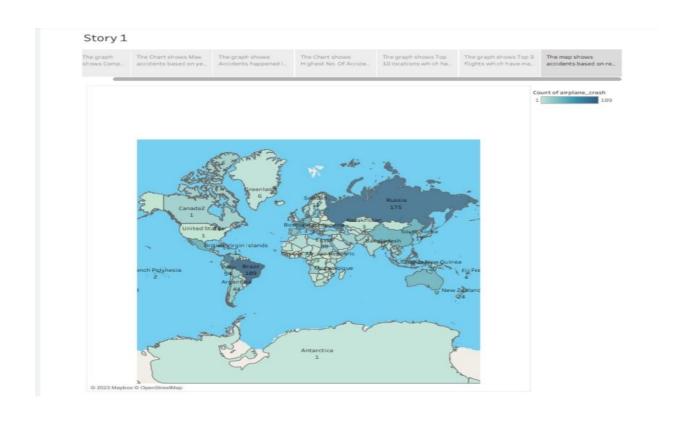
Top 10 locations which had more accidents:



Highest No. of Accident happened by operator:



Accidents Based on Regions:



3.3. About:

Start Bootstrap

DASHBOARD STORY ABOUT TEAM

ABOUT

An airplane crash analysis is a detailed investigation into the causes of an aviation accident. The goal of an airplane crash analysis is to identify any factors that contributed to the accident, with the ultimate goal of improving safety and preventing future accident

QUEENS

Flight crash

Activate Windows

Go to Settings to activate Windows.

QUEENS

Flight crash



Vinitha Team Leader



Sathya Team Member



Hema Team Member



Suvitha Team Member

Activate Windows

Go to Settings to activate Windows.

4. Advantages of Flight Crash:

High Speed

Air is the type of freight capable of traveling long distances in short periods of time. This makes this model an optimum choice if the client has an urgent need to ship a product or if their freight demands special standards of protection or acclimation. It is the quickest transport mode and is therefore ideal for long-distance transport of goods. It takes less time.

Fast Service

Air transportation offers convenient, reliable and fast services of transport. It is considered the cheapest way to ship peregrinated goods. It offers a standard, convenient, reliable and fast service.

Send almost everywhere your freight

In regions that are not readily accessible to other modes of transport, air transport is considered to be the only means of transport. Open to all regions, irrespective of land interference. A vast network of airlines covering nearly the whole globe is available for many airlines. This ensures that the package can be sent almost anywhere.

• High Standard of Security

High standard of protection with a low risk of robbery and injury. Shipping by air has a high degree of security since airport safety restrictions on cargo are strictly enforced. Tightly controlled airport controls also minimise cargo theft and loss.

5. Disadvantages of Flight Crash:

Climate conditions that are adverse: Extreme weather will cause planes to be grounded and airports to close, halting shipments for several days and rendering the service ineffective.

• Risky

Air travel is the riskiest mode of transport, since there can be considerable losses to goods, customer and crews as a result of a minor crash. Compared to other means of travel, the risks of collisions are higher.

Cost

Air travel is considered to be the most expensive means of transportation. The cost of maintaining aircraft is higher and the costs for the building of aerodromes and avions are much higher. That's why air travel is so expensive that it gets beyond ordinary people's grasp.

• Some Product Limitation

There is a whole variety of materials not suitable for such products, from explosives, gases, batteries, fired solids and liquids, which cannot be shipped by air to name but a few.

• Capacity for Small Carriage

The aircraft have no room and therefore are not ideal for carriage of voluminous and cheaper materials. As is seen for rails, the load volume cannot be raised.

5. Applications:

- This solution could gathered from the data on past airplane crashes from various sources such as news articles, aviation authorities and accident investigation reports.
- Airplane crash analysis has many applications, also includes improving aviation safety, developing better aircraft design, and enhancing emergency response procedures.
- By analyzing all the available data, experts can also provided the reasons for the accident and any possibility.
- Airlines literally bear high costs due to delays and cancellations that
 includes expenses on maintenance and compensations to travelers
 stuck in airports. With nearly 30 percent of the total delay time caused
 by unplanned maintenance, predictive analytics applied to fleet
 technical support is a reasonable solution.
- Aviationaccidentanalysisisusedbyinsurancecompaniestoassessriskandd eterminepremiumsforaviationinsurancepolicies.
- The application could used for analyze data and machine learning algorithms to predict the future airplane crash based on various factors such as weather conditions, flight routes, and aircraft.

 We used long-term sequence aviation accident statistics to analyze the characteristics of historical aviation accidents and predict the future direction of aviation accidents.

6. Conclusion:

Aviation accident analysis is an important part of aviation safety research.

Here we analysis the Tragedy of flight: A Comprehensive Crash analysis by

empathy map, Brainstorming, Data preparation, Data visualization, Dashboard &

Story.

7. Future Scope:

- With the increase of global civil aviation transportation, more and
 more researchers pay attention to the analysis of civil aviation accidents.
- Atlast, there is a lot of potential for future growth and development in the field of airplane crash analysis. By leveraging new technologies and techniques, and promoting collaboration between stakeholders, this field can continue to improve aviation safety and prevent future accidents.
- While many airplane crashes are caused by mechanical or technical failures, human factors also play a significant role. Future airplane crash

analysis could focus more on identifying and addressing human factors, such as pilot error or fatigue.

 Drones have the potential to be used for crash investigation and analysis. They can provide real-time data, images, and video footage from the accident scene, which can help investigators to understand the circumstances that led to the crash.

Appendix:

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XI File Edit Selection View Go Run Terminal Help
                                                                                                                                  index.html - Visual Studio Code
      index.html X
      C: > Users > BSC1 > Desktop > NAAN_Mudhalvan_final > ♦ index.html > ...
            (!DOCTYPE html)
            <html lang="en">
                   <meta charset="utf-8" />
                   <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no" />
                   <meta name="description" content="" />
                   <meta name="author" content="" />
                   <title>Naan-Mudhalvan</title>
                   k rel="icon" type="image/x-icon" href="assets/favicon.ico" />
                   <!-- Font Awesome icons (free version)-->
                   <script src="https://use.fontawesome.com/releases/v6.3.0/js/all.js" crossorigin="anonymous"></script>
                   <!-- Google fonts-->
                   k href="https://fonts.googleapis.com/css?family=Montserrat:400,700" rel="stylesheet" type="text/css" />
                   k href="https://fonts.googleapis.com/css?family=Roboto+Slab:400,100,300,700" rel="stylesheet" type="text/css" />
                   <!-- Core theme CSS (includes Bootstrap)-->
                   <link href="css/styles.css" rel="stylesheet" />
               <body id="page-top">
                   <nav class="navbar navbar-expand-lg navbar-dark fixed-top" id="mainNav">
                       <div class="container">
                          <a class="navbar-brand" href="#page-top"><img src="assets/img/navbar-logo.svg" alt="..." /></a>
                          <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarResponsive" aria-controls="navbarRe</pre>
                             Menu
                             (i class="fas fa-bars ms-1")(/i)
                          <div class="collapse navbar-collapse" id="navbarResponsive">
                              <a class="nav-link" href="#services">Dashboard</a>
                                                                                                                            Activate Windows
                                  <a class="nav-link" href="#portfolio">Story</a>
                                  <a class="nav-link" href="#about">About</a>
                                  (li class-"nov_item"\/a class-"nov_link" href-"#team"\Team
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