

DATA ANALYTICS POWERED BY TABLEAU

PROJECT TITLE

THE TRAGEDY OF FLIGHT : A COMPREHENSIVE CRASH ANALYSIS



SUBMITTED BY

TEAM ID : NM2023TMID00081

TEAM SIZE : 4

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TEAM MEMBER : DAMEETHA.P.S

PROJECT REPORT

❖ INTRODUCTION

- OVERVIEW

- PURPOSE

❖ PROBLEM DEFINITION & DESIGN THINKING

- EMPATHY MAP

- IDEATION AND BRAINSTORMING MAP

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❖ ADVANTAGES AND DISADVANTAGES

❖ APPLICATIONS

❖ CONCLUSION

❖ FUTURE SCOPE

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THE TRAGEDY OF FLIGHT : A COMPREHENSIVE CRASH ANALYSIS

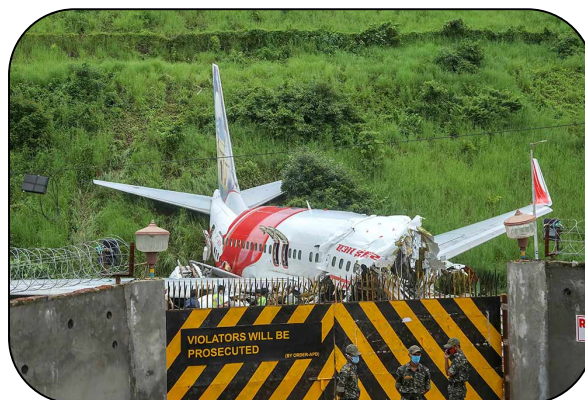
INTRODUCTION:



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 accidents.

PROBLEM:

The airplane crashes causes risk to the passengers.



EMPATHY MAP



Build empathy

The information you add here should be representative of the observations and research you've done about your users.

Says

What have we heard them say?
What can we imagine them saying?

It's a
terrifying
situation
Mechanical
failure
Terror
Pilot error
due to
distraction



Thinks

What are their wants, needs, hopes,
and dreams? What other thoughts
might influence their behavior?

Try to make
every
attempt
about the
flight
Prevent
crash
Avoid trouble
in the flight
during bad
weather
conditions
Study plane
crash
history



The Tug-of-War: A Comprehensive
Cost Analysis



Does

What behavior have we observed?
What can we imagine them doing?

Prepare
for
impacts
Choose
the safest
seat
Brush up
on the
survival
skills
Prepare
for impact



Feels

What are their fears, frustrations, and
anxieties? What other feelings might
influence their behavior?

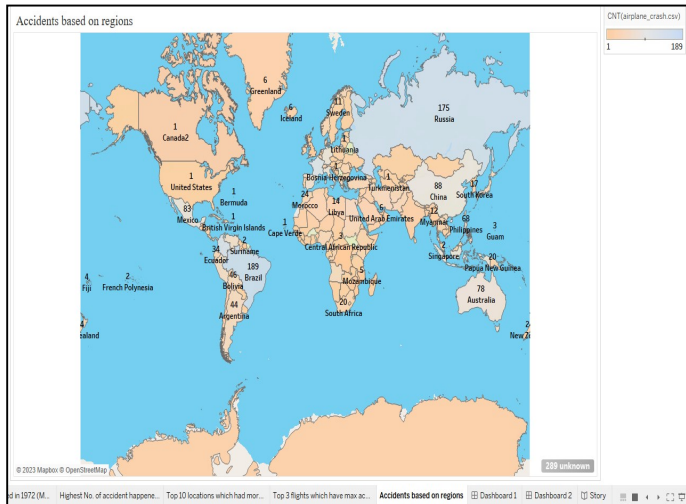
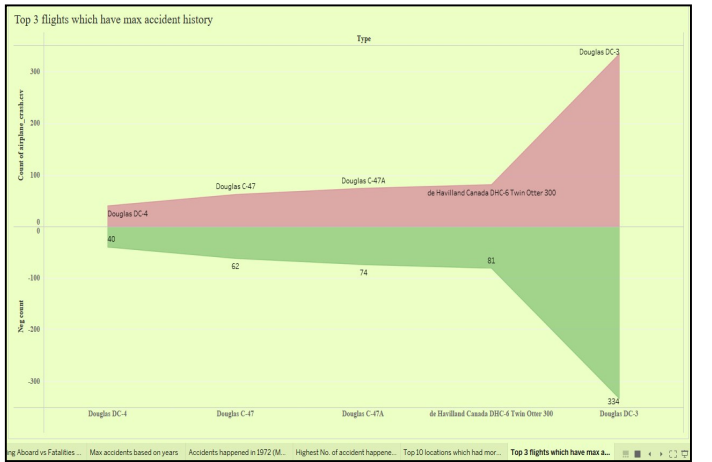
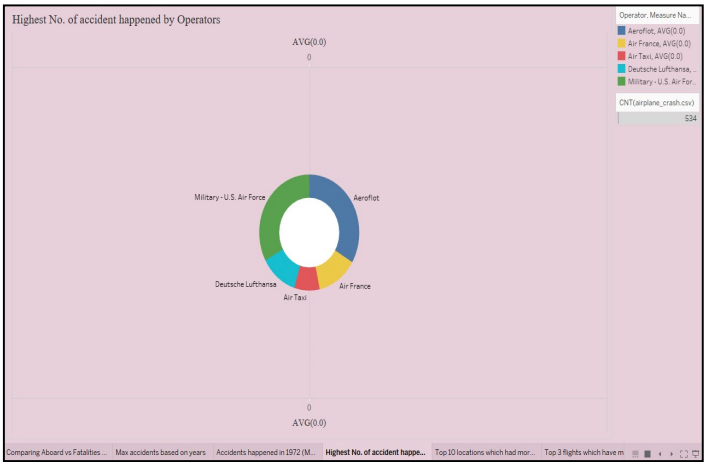
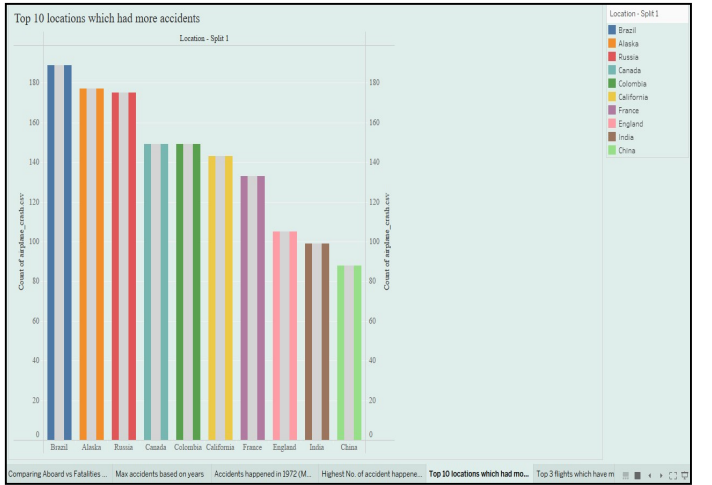
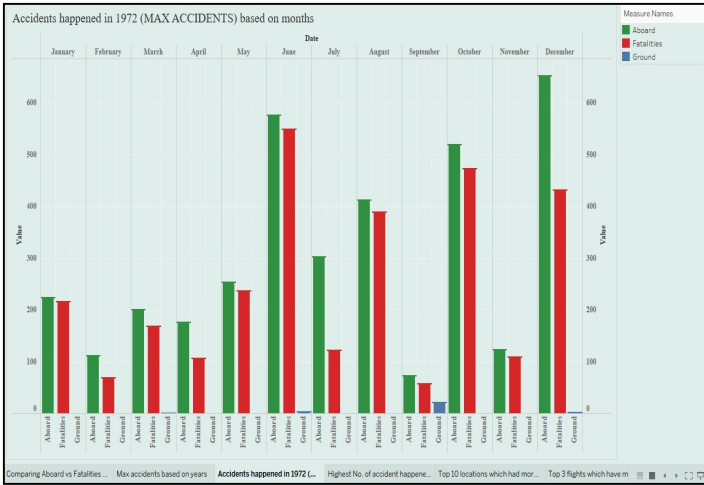
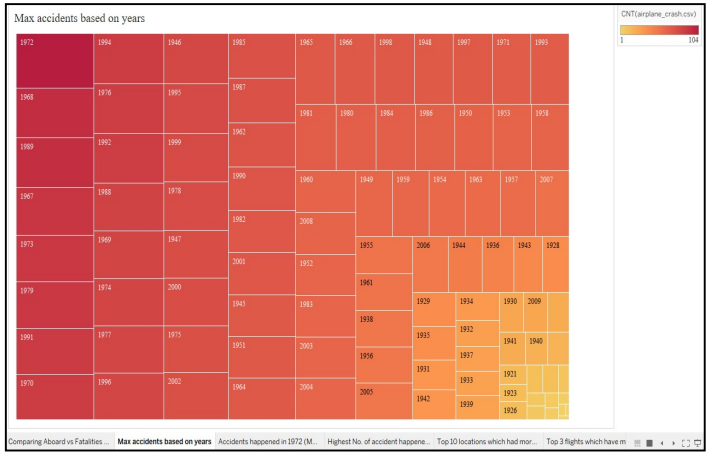
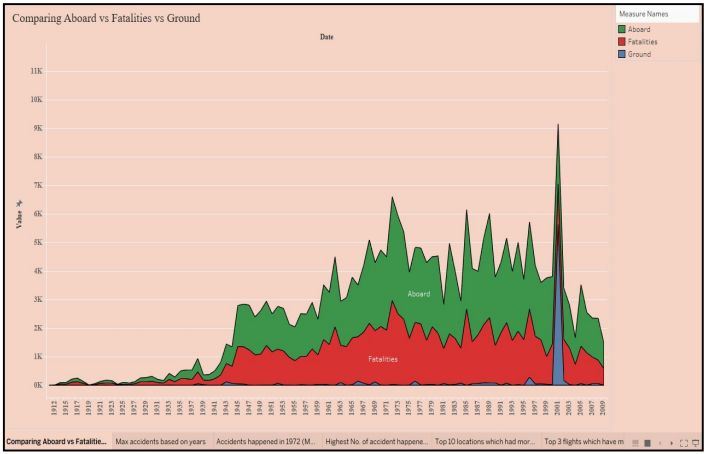
Increased
heart rate
High
adrenaline
levels
Anxiety
Nausea

IDEATION & BRAINSTORMING MAP



RESULT

DATA VISUALIZATION

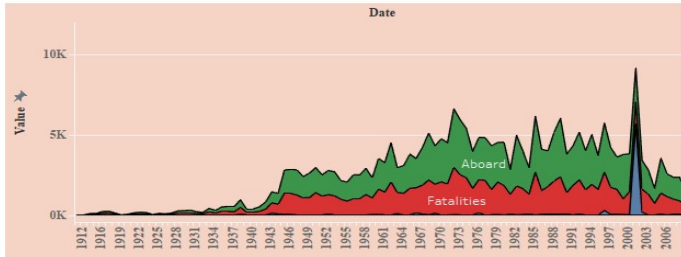


DASHBOARD

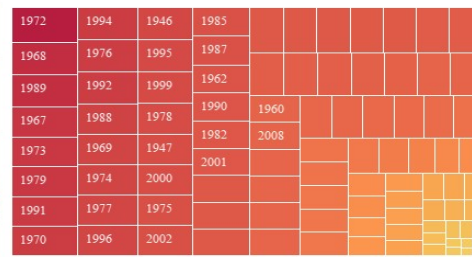
AIRPLANE CRASH ANALYSIS

[NEXT](#)

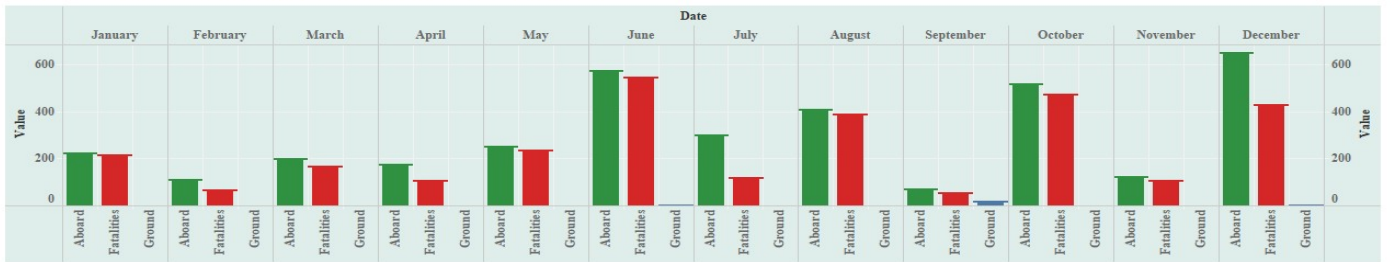
Comparing Aboard vs Fatalities vs Ground



Max accidents based on years

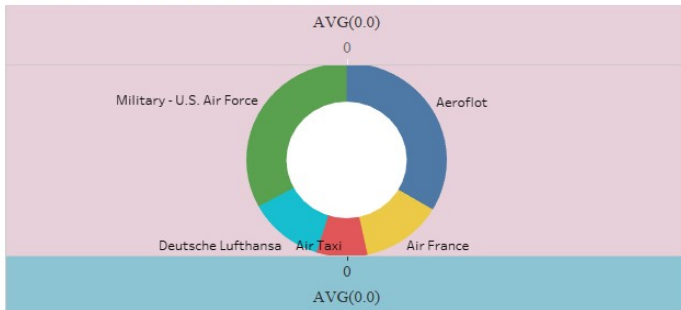


Accidents happened in 1972 (MAX ACCIDENTS) based on months



sd in 1972 (M... Highest No. of accident happene... Top 10 locations which had mor... Top 3 flights which have max ac... Accidents based on regions Dashboard 1 Dashboard 2 Story

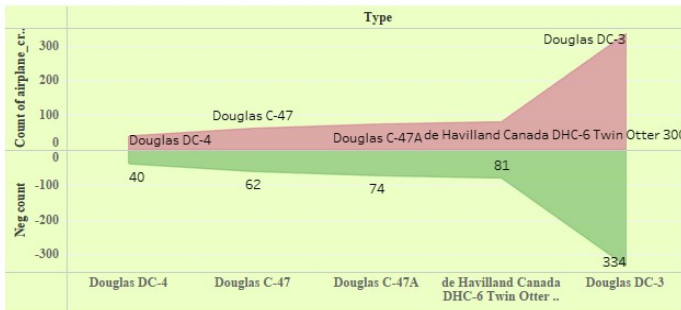
Highest No. of accident happened by Operators



Top 10 locations which had more accidents

[PREVIOUS](#)

Top 3 flights which have max accident history



Accidents based on regions

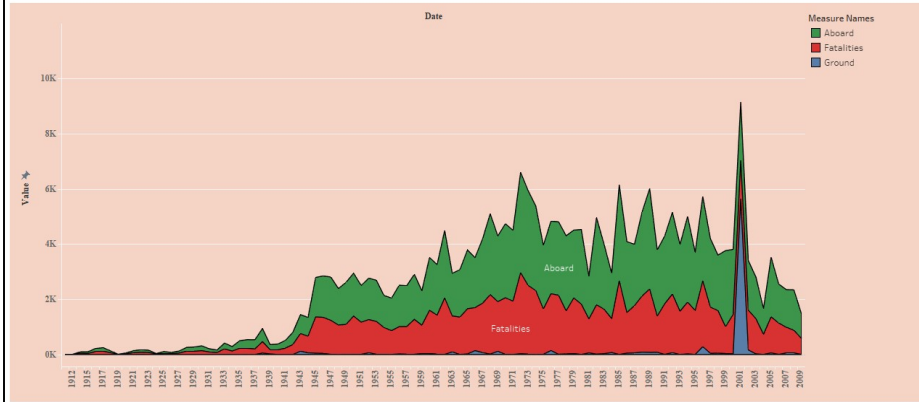


sd in 1972 (M... Highest No. of accident happene... Top 10 locations which had mor... Top 3 flights which have max ac... Accidents based on regions Dashboard 1 Dashboard 2 Story

STORY

Story

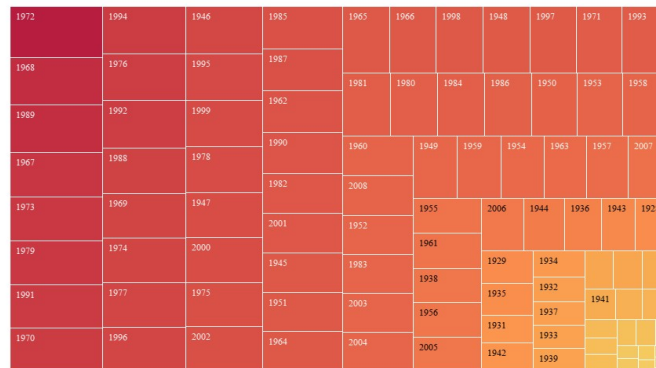
- In the year of 2001 maximum number of persons reached
- In the year of 1972 maximum accidents happened
- Accidents based on the year 1972, June month occurs the
- Highest number of accident happened by Aeroflot operator.
- Count of airplane crash is same for both Canada and Colombia.
- Maximum accident history has made by the flight Douglas
- The Brazil had more airplane crash compared to other



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Story

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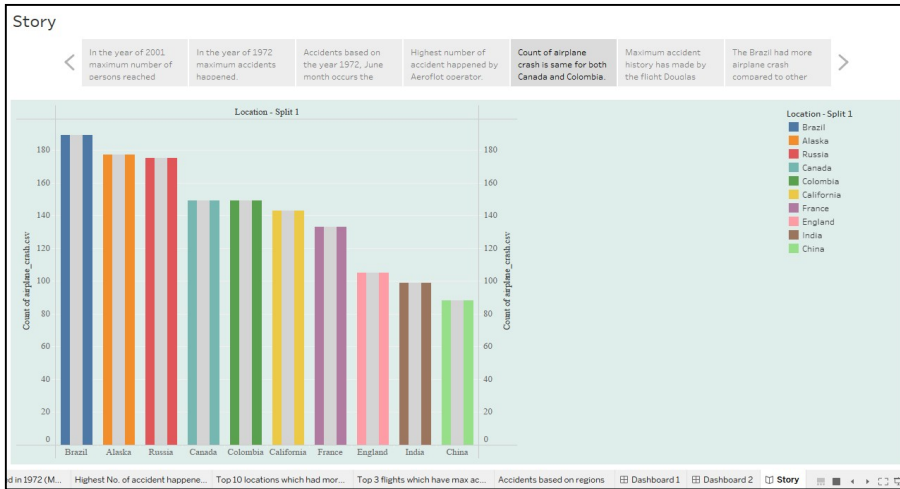
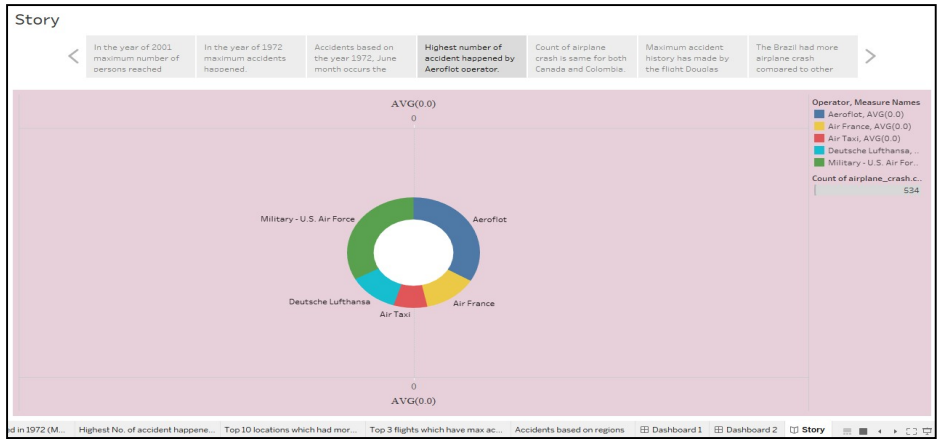
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Story

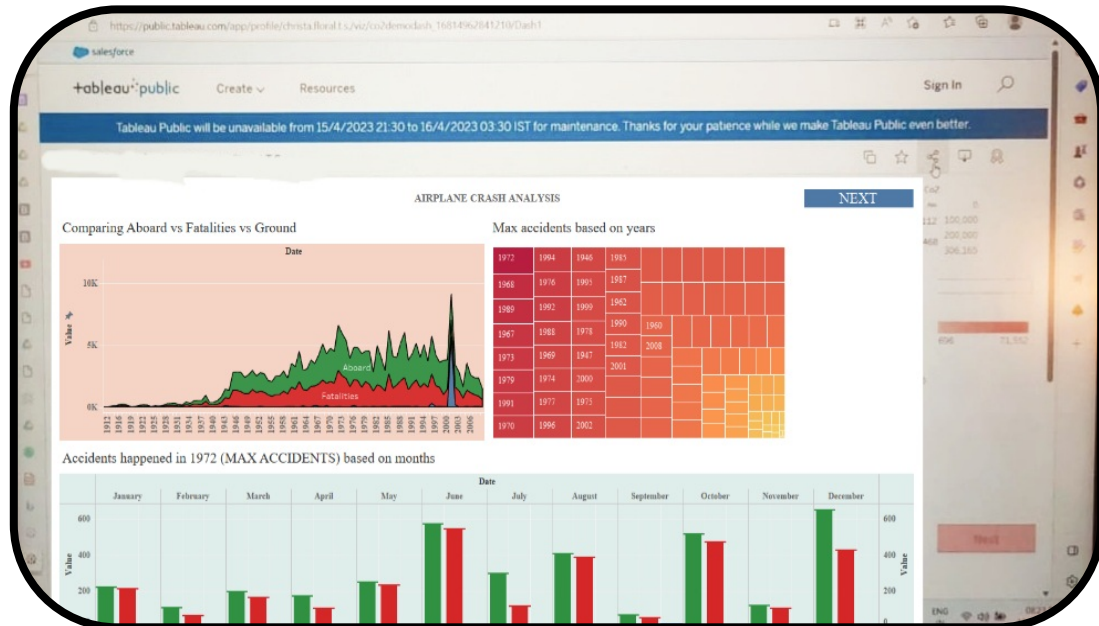
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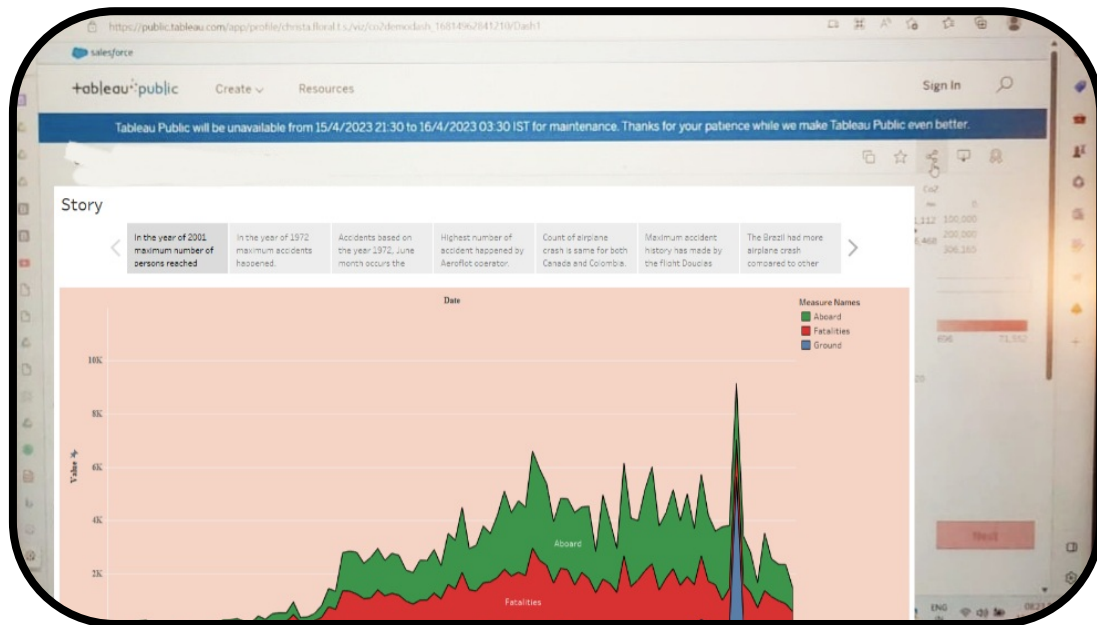


ed in 1972 (M... Highest No. of accident happene... Top 10 locations which had mor... Top 3 flights which have max ac... Accidents based on regions Dashboard 1 Dashboard 2 Story



WEB INTEGRATION





ADVANTAGES & DISADVANTAGES

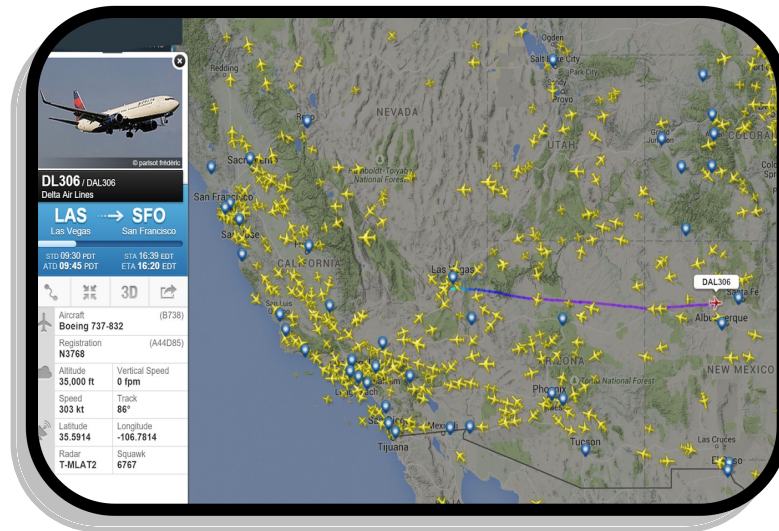
ADVANTAGES:

- ❖ It has special standard of protection.
- ❖ It offers standard, convenient, reliable and fast service.
- ❖ To create more awareness of flight crash.

DISADVANTAGES:

- ❖ It is detrimental to the environment.
- ❖ The cargo capacity of an airplane is limited.
- ❖ The risk of collisions are higher.

APPLICATION:



The process of conducting an airplane crash analysis typically involves the collection and analysis of a wide range of data, including information its systems, the operators, and any other relevant factors about the aircraft and its systems, the operators, and any other relevant factors.

CONCLUSION:



The airplane crash data identifies the potential causes of the accident.

FUTURE SCOPE:

The results of an airplane crash analysis are typically published in a report, which may include recommendations for improving safety and preventing similar accidents in the future.

APPENDIX:

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8">
  <meta content="width=device-width, initial-scale=1.0" name="viewport">

  <title>SHPVIBE - Airplane Crash</title>
  <meta content="" name="description">
  <meta content="" name="keywords">

  <!-- Favicons -->
  <link href="assets/img/favicon.png" rel="icon">
  <link href="assets/img/apple-touch-icon.png" rel="apple-touch-icon">

  <!-- Google Fonts -->
  <link
href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,
600,600i,700,700i|Jost:300,300i,400,400i,500,500i,600,600i,700,700i|Poppin
s:300,300i,400,400i,500,500i,600,600i,700,700i" rel="stylesheet">

  <!-- Vendor CSS Files -->
  <link href="assets/vendor/aos/aos.css" rel="stylesheet">
  <link href="assets/vendor/bootstrap/css/bootstrap.min.css"
rel="stylesheet">
  <link href="assets/vendor/bootstrap-icons/bootstrap-icons.css"
rel="stylesheet">
  <link href="assets/vendor/boxicons/css/boxicons.min.css"
rel="stylesheet">
  <link href="assets/vendor/glightbox/css/glightbox.min.css"
rel="stylesheet">
  <link href="assets/vendor/remixicon/remixicon.css" rel="stylesheet">
  <link href="assets/vendor/swiper/swiper-bundle.min.css"
rel="stylesheet">

  <!-- Template Main CSS File -->
  <link href="assets/css/style.css" rel="stylesheet">
```



```

<!-- =====
* Template Name: Arsha - v4.9.1
* Template URL: https://bootstrapmade.com/arsha-free-bootstrap-html-
template-corporate/
* Author: BootstrapMade.com
* License: https://bootstrapmade.com/license/
===== -->
</head>

<body>

<!-- ===== Header ===== -->
<header id="header" class="fixed-top ">
  <div class="container d-flex align-items-center">

    <h1 class="logo me-auto"><a href="index.html">SHPVIBE</a></h1>
    <!-- Uncomment below if you prefer to use an image logo -->
    <!-- <a href="index.html" class="logo me-auto"></a>-->

    <nav id="navbar" class="navbar">
      <ul>
        <li><a class="nav-link scrollto active"
href="#hero">Home</a></li>
        <li><a class="nav-link scrollto" href="#about">About</a></li>

        <li><a class="nav-link scrollto" href="#team">Dashboard</a></li>

        <li><a class="nav-link scrollto" href="#pricing">Story</a></li>

        <li><a class="nav-link scrollto"
href="#contact">Contact</a></li>
        <li><a class="getstarted scrollto" href="#about">Get
Started</a></li>
      </ul>
      <i class="bi bi-list mobile-nav-toggle"></i>
    </nav><!-- .navbar -->

  </div>
</header><!-- End Header -->

```

```

<!-- ===== Hero Section ===== -->
<section id="hero" class="d-flex align-items-center">

    <div class="container">
        <div class="row">
            <div class="col-lg-6 d-flex flex-column justify-content-center pt-
4 pt-lg-0 order-2 order-lg-1" data-aos="fade-up" data-aos-delay="200">
                <h1>Airplane Crash analysis</h1>
                <h2>Airplane Crashes and Fatalities Since 1908</h2>
                <div class="d-flex justify-content-center justify-content-lg-
start">
                    <a href="#about" class="btn-get-started scrollto">Get
Started</a>
                    <a href="https://www.youtube.com/@thesmartbridge/videos"
class="glightbox btn-watch-video"><i class="bi bi-play-
circle"></i><span>Watch Video</span></a>
                </div>
            </div>
            <div class="col-lg-6 order-1 order-lg-2 hero-img" data-aos="zoom-
in" data-aos-delay="200">
                
            </div>
        </div>
    </div>

</section><!-- End Hero -->

<main id="main">
    <!-- ===== About Us Section ===== -->
    <section id="about" class="about">
        <div class="container" data-aos="fade-up">

            <div class="section-title">
                <h2>About Project</h2>
            </div>

            <div class="row content">
                <div class="col-lg-6">
                    <p>

```

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

</p>

<i class="ri-check-double-line"></i> a) a person is fatally or seriously injured,

<i class="ri-check-double-line"></i> b) the aircraft sustains significant damage or structural failure, or

<i class="ri-check-double-line"></i> c) the aircraft goes missing or becomes completely inaccessible.

</div>

<div class="col-lg-6 pt-4 pt-lg-0">

<p>

This dataset includes:

<i class="ri-check-double-line"></i> 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)

<i class="ri-check-double-line"></i> All cargo, positioning, ferry and test flight fatal accidents.

<i class="ri-check-double-line"></i> All military transport accidents with 10 or more fatalities.

<i class="ri-check-double-line"></i> All commercial and military helicopter accidents with greater than 10 fatalities.

<i class="ri-check-double-line"></i> All civil and military airship accidents involving fatalities.

<i class="ri-check-double-line"></i> Aviation accidents involving the death of famous people.

</p>

</div>

</div>

</div>

</section><!-- End About Us Section -->

```

<!-- ===== Cta Section ===== -->
<section id="cta" class="cta">
  <div class="container" data-aos="zoom-in">

    <div class="row">
      <div class="col-lg-9 text-center text-lg-start">
        <h3>Call To Action</h3>
      </div>
      <div class="col-lg-3 cta-btn-container text-center">
        <a class="cta-btn align-middle" href="#">Call To Action</a>
      </div>
    </div>

  </div>
</section><!-- End Cta Section -->
<!-- ===== Team Section ===== -->
<section id="team" class="team section-bg">
  <div class="container" data-aos="fade-up">

    <div class="section-title">
      <h2>Dashboard</h2>
    </div>

    ><div class='tableauPlaceholder' id='viz1681629534056'
style='position: relative'><noscript><a href='#'><img alt='Dashboard 1 '
src='https://public.tableau.com/static/images/Da/Dashboardcrashanalysis2/Dashboard1/1_rss.png' style='border: none'
/></a></noscript><object class='tableauViz' style='display:none;'><param
name='host_url' value='https%3A%2F%2Fpublic.tableau.com%2F' /> <param
name='embed_code_version' value='3' /> <param name='site_root' value=''
/><param name='name' value='Dashboardcrashanalysis2/Dashboard1'
/><param name='tabs' value='no' /><param name='toolbar' value='yes'
/><param name='static_image'
value='https://public.tableau.com/static/images/Da/Dashboardcrashanalysis2/Dashboard1/1.png' /> <param
name='animate_transition' value='yes' /><param name='display_static_image'
value='yes' /><param name='display_spinner' value='yes' /><param
name='display_overlay' value='yes' /><param name='display_count'
value='yes' /><param name='language' value='en-US' /><param name='filter'
value='publish=yes' /></object></div>
    <script

```

```

type='text/javascript'>
document.getElementById('viz1681629534056');
vizElement = divElement.getElementsByTagName('object')[0];
    if ( divElement.offsetWidth > 800 ) {
vizElement.style.width='100%';vizElement.style.height=(divElement.offsetWidth*0.75)+'px';} else if ( divElement.offsetWidth > 500 ) {
vizElement.style.width='100%';vizElement.style.height=(divElement.offsetWidth*0.75)+'px';} else {
vizElement.style.width='100%';vizElement.style.height='1027px';}
        var scriptElement = document.createElement('script');
        scriptElement.src =
'https://public.tableau.com/javascripts/api/viz_v1.js';
        vizElement.parentNode.insertBefore(scriptElement, vizElement);
    </script>
</div>
</section><!-- End Team Section -->
</section><!-- End Cta Section -->
<!-- ===== Team Section ===== -->
<section id="team" class="team section-bg">
    <div class="container" data-aos="fade-up">

        <div class="section-title">
            <h2>Dashboard</h2>
        </div>

        ><div class='tableauPlaceholder' id='viz1681629534056'
style='position: relative'><noscript><a href='#><img alt='Dashboard 1 '
src='https://public.tableau.com/static/images/Dashboardcrashanalysis2/Dashboard1/1_rss.png' style='border: none'
/></a></noscript><object class='tableauViz' style='display:none;'><param
name='host_url' value='https%3A%2F%2Fpublic.tableau.com%2F' /> <param
name='embed_code_version' value='3' /> <param name='site_root' value=''
/><param name='name' value='Dashboardcrashanalysis2/Dashboard1'
/><param name='tabs' value='no' /><param name='toolbar' value='yes'
/><param name='static_image'
value='https://public.tableau.com/static/images/Dashboardcrashanalysis2/Dashboard1/1.png' /> <param
name='animate_transition' value='yes' /><param name='display_static_image'
value='yes' /><param name='display_spinner' value='yes' /><param
name='display_overlay' value='yes' /><param name='display_count'
value='yes' /><param name='language' value='en-US' /><param name='filter'

```

```

value='publish=yes' /></object></div>                                <script
type='text/javascript'>                                var divElement =
document.getElementById('viz1681629534056');                                var
vizElement = divElement.getElementsByTagName('object')[0];
    if ( divElement.offsetWidth > 800 ) {
vizElement.style.width='100%';vizElement.style.height=(divElement.offsetWi
dth*0.75)+'px';} else if ( divElement.offsetWidth > 500 ) {
vizElement.style.width='100%';vizElement.style.height=(divElement.offsetWi
dth*0.75)+'px';} else {
vizElement.style.width='100%';vizElement.style.height='1027px';}
        var scriptElement = document.createElement('script');
        scriptElement.src =
'https://public.tableau.com/javascripts/api/viz_v1.js';
        vizElement.parentNode.insertBefore(scriptElement, vizElement);
    </script>
</div>
</section><!-- End Team Section -->
<!-- ===== Pricing Section ===== -->
<section id="pricing" class="pricing">
    <div class="container" data-aos="fade-up">

        <div class="section-title">
            <h2>Story</h2>
        </div>

        <<div class='tableauPlaceholder' id='viz1681630103217'
style='position: relative'><noscript><a href='#'><img alt='Story '
src='https://public.tableau.com/static/images/Dashboardcrashanalysis3/Story/1_rss.png' style='border: none'
/></a></noscript><object class='tableauViz' style='display:none;'><param
name='host_url' value='https%3A%2F%2Fpublic.tableau.com%2F' /> <param
name='embed_code_version' value='3' /> <param name='site_root' value=''
/><param name='name' value='Dashboardcrashanalysis3/Story' /><param
name='tabs' value='no' /><param name='toolbar' value='yes' /><param
name='static_image'
value='https://public.tableau.com/static/images/Dashboardcrashanalysis3/Story/1.png' /> <param
name='animate_transition' value='yes' /><param name='display_static_image'
value='yes' /><param name='display_spinner' value='yes' /><param
name='display_overlay' value='yes' /><param name='display_count'

```



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value='yes' /><param name='language' value='en-US' /><param name='filter'
value='publish=yes' /></object></div>                <script
type='text/javascript'>                var divElement =
document.getElementById('viz1681630103217');                var
vizElement = divElement.getElementsByTagName('object')[0];

vizElement.style.width='100%';vizElement.style.height=(divElement.offsetW
idth*0.75)+'px';                var scriptElement =
document.createElement('script');                scriptElement.src =
'https://public.tableau.com/javascripts/api/viz_v1.js';
vizElement.parentNode.insertBefore(scriptElement, vizElement);
</script>
</div>
</section><!-- End Pricing Section -->

<!-- ===== Contact Section ===== -->
<section id="contact" class="contact">
  <div class="container" data-aos="fade-up">

    <div class="section-title">
      <h2>Contact</h2>
    </div>

    <div class="row">

      <div class="col-lg-5 d-flex align-items-stretch">
        <div class="info">
          <div class="address">
            <i class="bi bi-geo-alt"></i>
            <h4>Location:</h4>
            <p>xxxxxxx Street, xxx, xx 53xxx2</p>
          </div>

          <div class="email">
            <i class="bi bi-envelope"></i>
            <h4>Email:</h4>
            <p>info@example.com</p>
          </div>

          <div class="phone">

```

```

        <i class="bi bi-phone"></i>
        <h4>Call:</h4>
        <p>+1 5xxx 5xxx8 5xs</p>
    </div>

    <iframe
src="https://www.google.com/maps/embed?pb=!1m14!1m8!1m3!1d12097.4332134609
43!2d-
74.0062269!3d40.7101282!3m2!1i1024!2i768!4f13.1!3m3!1m2!1s0x0%3A0xb89d1fe6
bc499443!2sDowntown+Conference+Center!5e0!3m2!1smk!2sbg!4v1539943755621"
frameborder="0" style="border:0; width: 100%; height: 290px;"
allowfullscreen></iframe>
    </div>

</div>

<div class="col-lg-7 mt-5 mt-lg-0 d-flex align-items-stretch">
    <form action="forms/contact.php" method="post" role="form"
class="php-email-form">
        <div class="row">
            <div class="form-group col-md-6">
                <label for="name">Your Name</label>
                <input type="text" name="name" class="form-control"
id="name" required>
            </div>
            <div class="form-group col-md-6">
                <label for="name">Your Email</label>
                <input type="email" class="form-control" name="email"
id="email" required>
            </div>
            <div class="form-group">
                <label for="name">Subject</label>
                <input type="text" class="form-control" name="subject"
id="subject" required>
            </div>
            <div class="form-group">
                <label for="name">Message</label>
                <textarea class="form-control" name="message" rows="10"
required></textarea>

```

```

        </div>
        <div class="my-3">
            <div class="loading">Loading</div>
            <div class="error-message"></div>
            <div class="sent-message">Your message has been sent.
Thank you!</div>
        </div>
        <div class="text-center"><button type="submit">Send
Message</button></div>
    </form>
</div>

</div>
</section><!-- End Contact Section -->

</main><!-- End #main -->

<!-- ===== Footer ===== -->
<footer id="footer">

    <div class="footer-newsletter">
        <div class="container">
            <div class="row justify-content-center">
                <div class="col-lg-6">
                    <h4>Join Our Newsletter</h4>

                    <form action="" method="post">
                        <input type="email" name="email"><input type="submit"
value="Subscribe">
                    </form>
                </div>
            </div>
        </div>
    </div>

    <div class="footer-top">
        <div class="container">
            <div class="row">

```

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    <div class="col-lg-3 col-md-6 footer-links">
      <h4>Useful Links</h4>
      <ul>
        <li><i class="bx bx-chevron-right"></i> <a href="#hero">Home</a></li>
        <li><i class="bx bx-chevron-right"></i> <a href="#about">About</a></li>
        <li><i class="bx bx-chevron-right"></i> <a href="#portfolio">Charts</a></li>
        <li><i class="bx bx-chevron-right"></i> <a href="#team">Dashboard</a></li>
        <li><i class="bx bx-chevron-right"></i> <a href="#pricing">Story</a></li>
      </ul>
    </div>

    <div class="col-lg-3 col-md-6 footer-links">
      <h4></h4>
      <ul>

      </ul>
    </div>

    <div class="col-lg-3 col-md-6 footer-links">
      <h4></h4>
      <ul>

      </ul>
    </div>

    <div class="col-lg-3 col-md-6 footer-links">
      <h4>Our Social Networks</h4>

      <div class="social-links mt-3">
        <a href="https://www.linkedin.com/in/hariprabu741/" class="linkedin"><i class="bx bxl-linkedin"></i></a>
        <a href="#" class="twitter"><i class="bx bxl-twitter"></i></a>
      </div>
    </div>

```

```

        <a href="#" class="facebook"><i class="bx bxl-
facebook"></i></a>
        <a href="#" class="instagram"><i class="bx bxl-
instagram"></i></a>
        <a href="#" class="google-plus"><i class="bx bxl-
skype"></i></a>

    </div>
</div>

</div>
</div>
</div>

<div class="container footer-bottom clearfix">
    <div class="copyright">
        &copy; Copyright <strong><span>SHPVIBE</span></strong>. All Rights
Reserved
    </div>
    <div class="credits">
        <!-- All the links in the footer should remain intact. -->
        <!-- You can delete the links only if you purchased the pro
version. -->
        <!-- Licensing information: https://bootstrapmade.com/license/ -->
        <!-- Purchase the pro version with working PHP/AJAX contact form:
https://bootstrapmade.com/arsha-free-bootstrap-html-template-corporate/ --
>
        Designed by <a href="https://bootstrapmade.com/">SHPVIBE</a>
    </div>
</div>
</footer><!-- End Footer -->

<div id="preloader"></div>
<a href="#" class="back-to-top d-flex align-items-center justify-
content-center"><i class="bi bi-arrow-up-short"></i></a>

<!-- Vendor JS Files -->
<script src="assets/vendor/aos/aos.js"></script>
<script
src="assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>

```

```
<script src="assets/vendor/glightbox/js/glightbox.min.js"></script>
<script src="assets/vendor/isotope-layout/isotope.pkgd.min.js"></script>
<script src="assets/vendor/swiper/swiper-bundle.min.js"></script>
<script src="assets/vendor/waypoints/noframework.waypoints.js"></script>
<script src="assets/vendor/php-email-form/validate.js"></script>

<!-- Template Main JS File -->
<script src="assets/js/main.js"></script>

</body>

</html>
```