

# THE TRAGEDY OF FLIGHT

## A Comprehensive Crash Analysis

### 1 INTRODUCTION

#### 1.1 Overview

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

#### 1.2 Purpose


Whilst flying is extremely safe, the typical reasons as to why planes crash include pilot error, technical failures, bad weather, terrorism, and pilot fatigue. There is never one single cause attributed to pilot an aircraft crash.

Common causes of takeoff and landing accidents include: Collisions with ground personnel. Overshooting a runway can cause a collision with ground crews or vehicles that were not cleared to cross the tarmac Bad weather.

## 2 Problem Definition & Design Thinking

### 2.1 Empathy Map

Template



## Empathy map

Use this framework to develop a deep, shared understanding and empathy for other people. An empathy map helps describe the aspects of a user's experience, needs and pain points, to quickly understand your users' experience and mindset.

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### 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?

**Thinks**

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

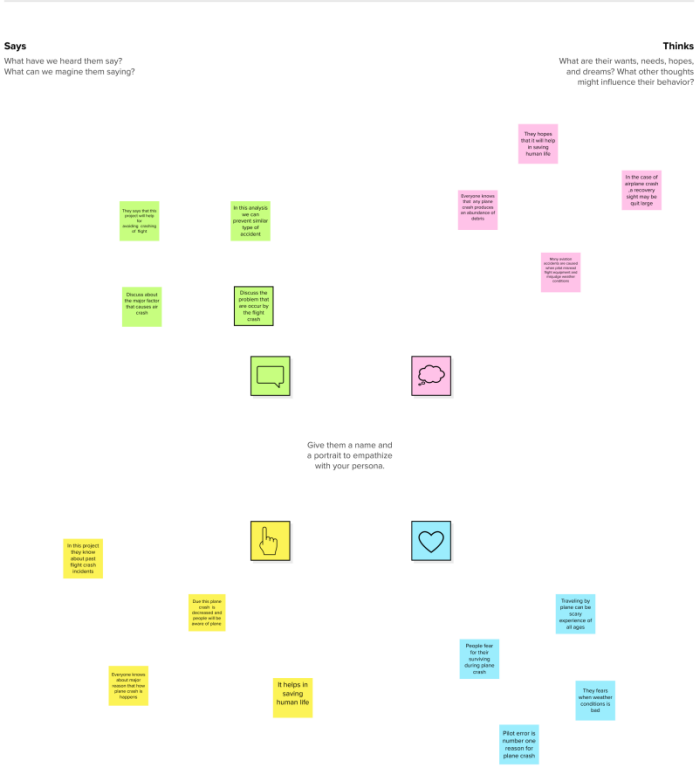
**Does**


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

**Feels**

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


Give them a name and a portrait to empathize with your persona.



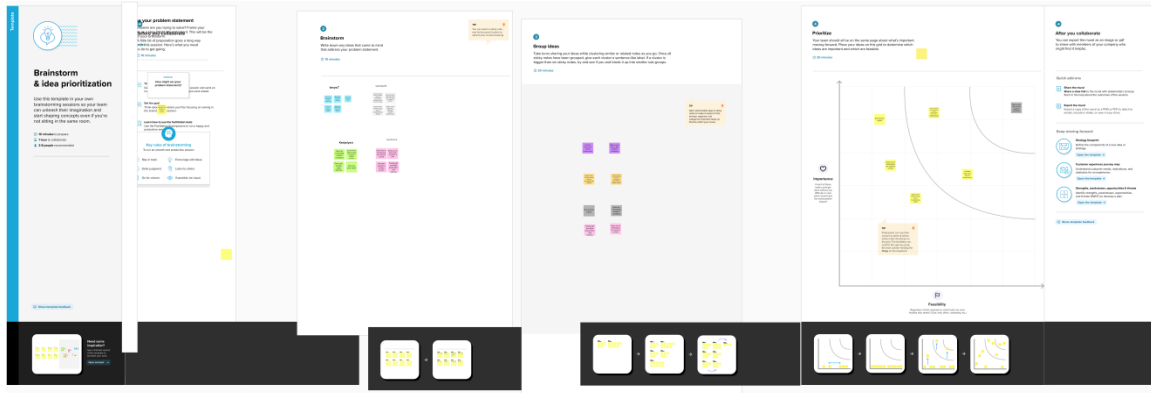


**Need some inspiration?**  
See a finished version of this template to kickstart your work.

[Open example](#)

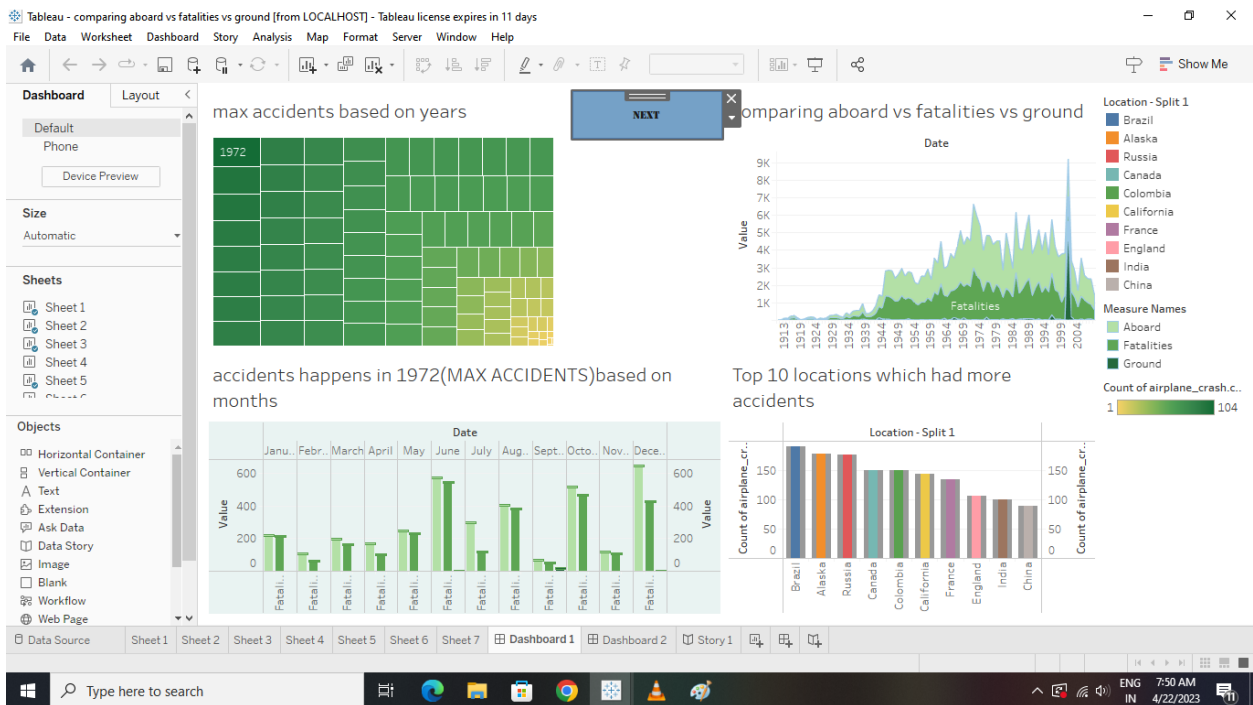


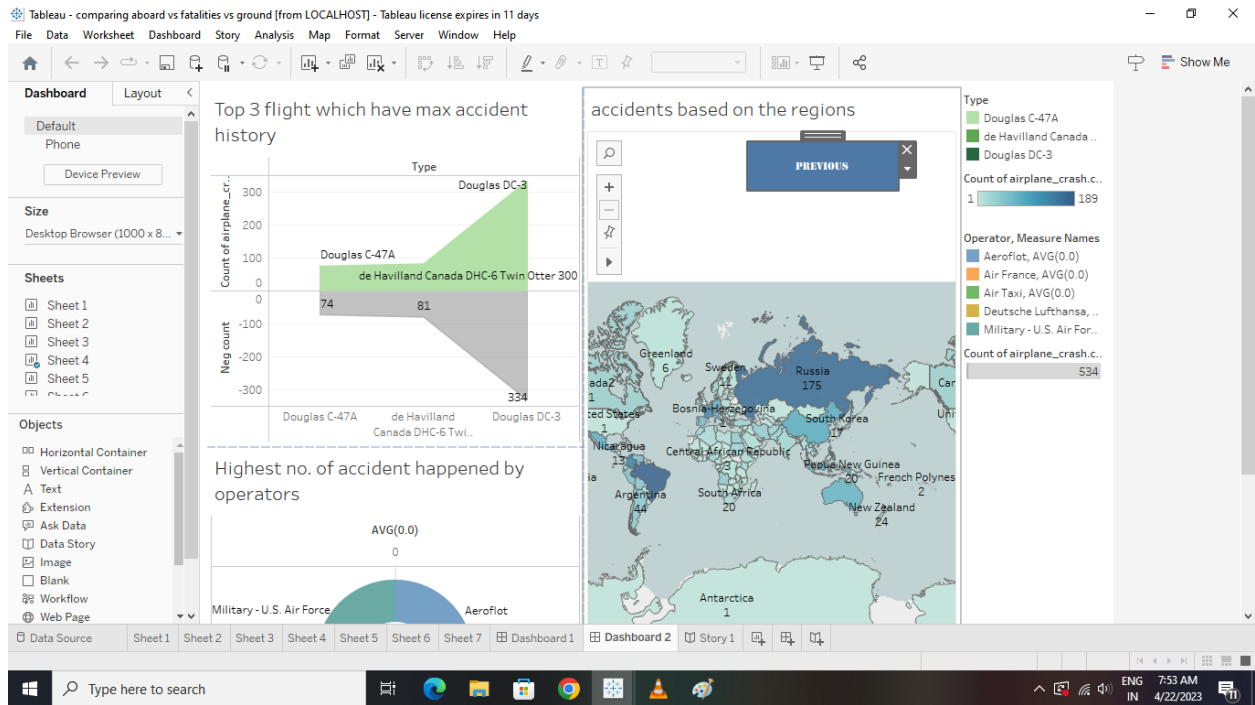
## 2.2 Ideation & Brainstorming Map



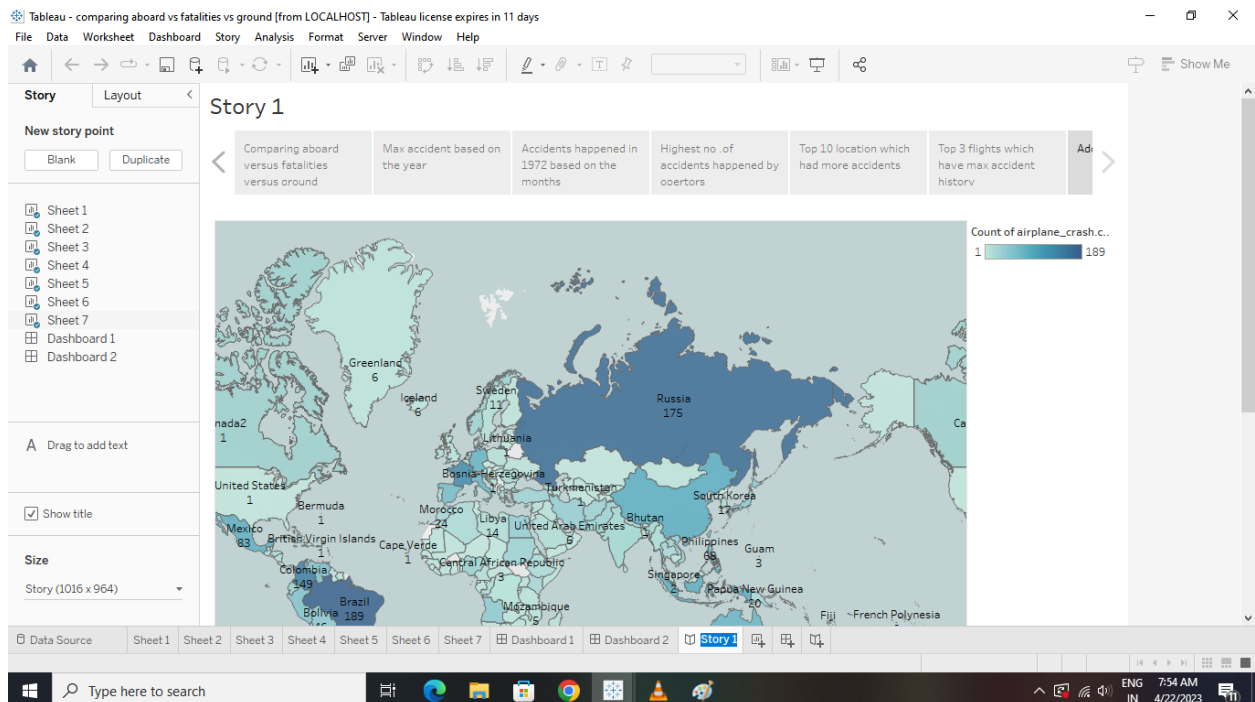
## 3 Result

### 3.1 Dashboard





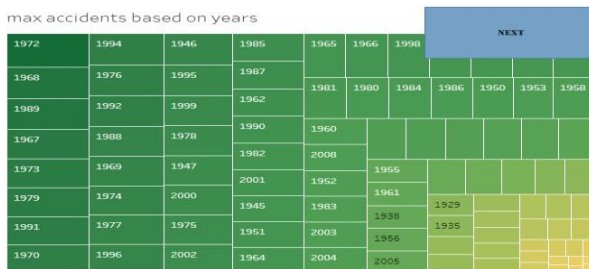
## 3.2 Story



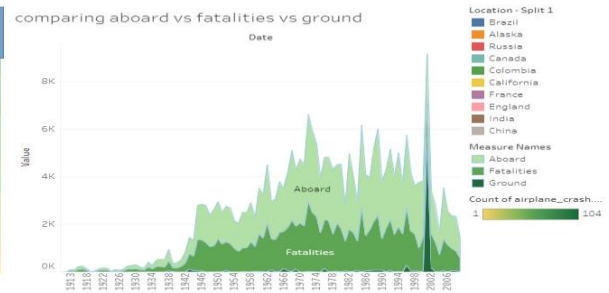
### 3.3 Dashboard Web



max accidents based on years



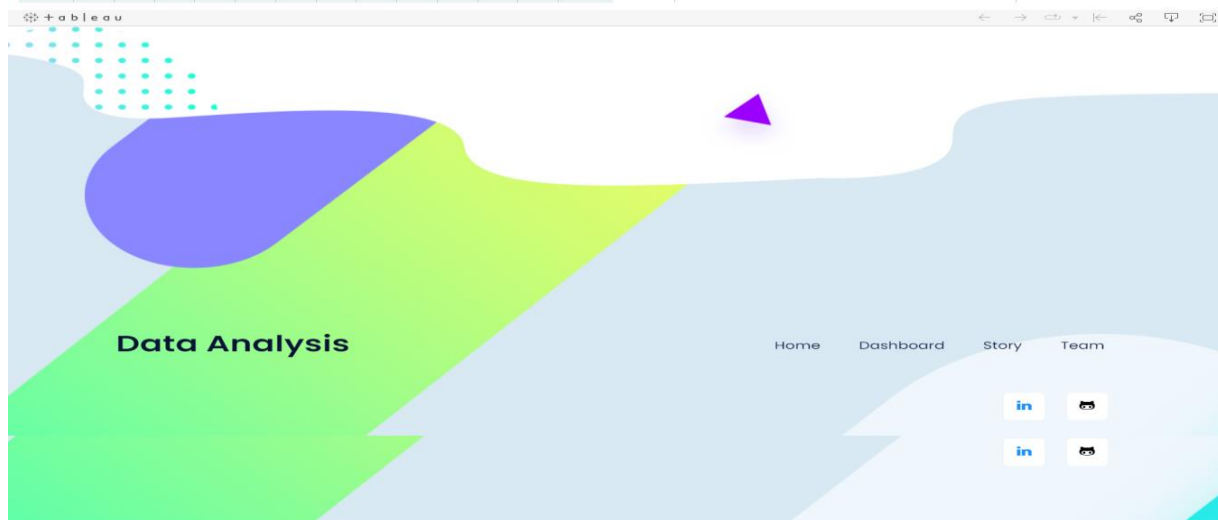
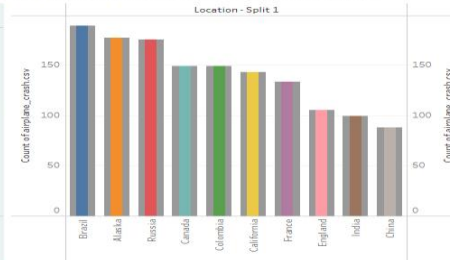
comparing aboard vs fatalities vs ground



accidents happens in 1972(MAX ACCIDENTS)based on months



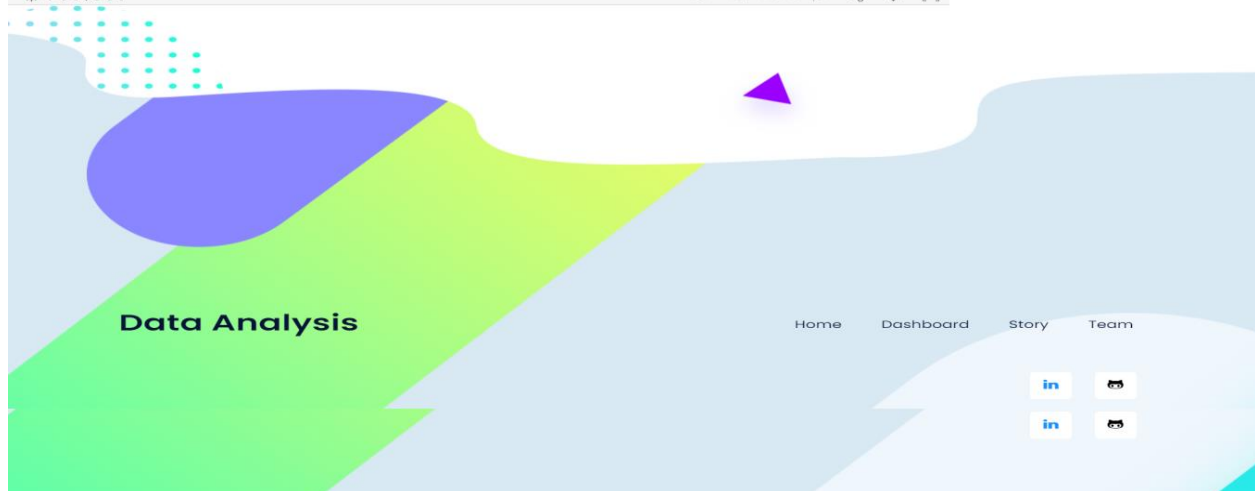
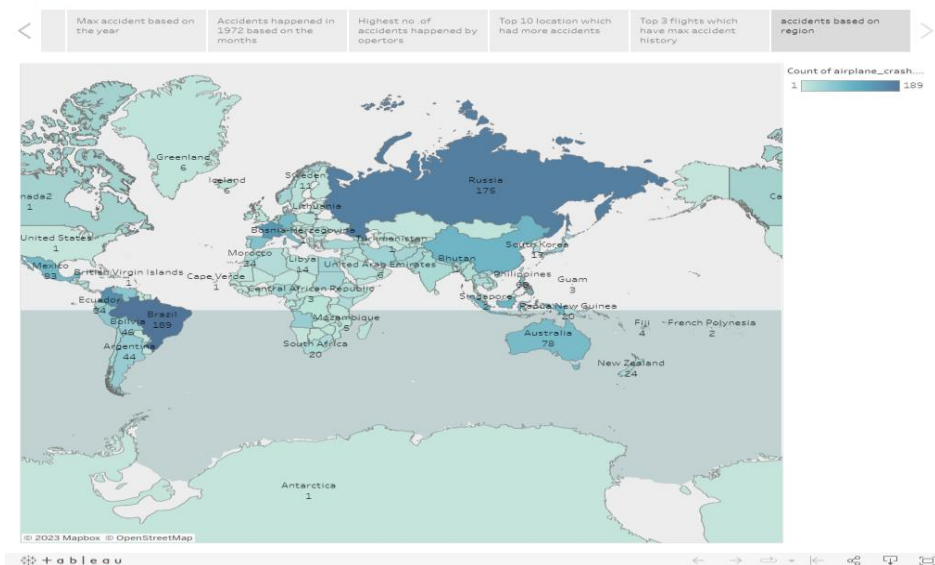
Top 10 locations which had more accidents



### 3.4 Story Web



#### Story 1



## 4 ADVANTAGES & DISADVANTAGES

### **Advantages:**

Short transit time in approximately 1 to a week of international transit.

Flights are not usually delayed.

The flights are usually daily and not weekly, as is the case with maritime departures, and this allows the reservation, collection, delivery of merchandise at the airport terminal and departure to be quickly coordinated.

It is a very reliable option for those occasions when the time factor is decisive, such as in cases of stock breakage, substitution of goods, spare parts or low volume/weight, which in these cases will be better than maritime groupage, which when it is less than 1m<sup>3</sup> is usually cheaper by air or in cases where the merchandise does not occupy the entire container.

It can also be useful in cases where there is no space or equipment in maritime and in this way the client can be given a solution.

### **Disadvantages:**

Although flights are not usually delayed, what can happen is that there is not enough space for cargo and if it is a plane that also carries passengers, they prioritize these and can delay arrival at destination.

The original air waybill or AWBL travels with the merchandise. They cannot be used as a method of retaining merchandise.

It is not advised for letters of credit for the reason stated above.

Depending on the type of aircraft, there is a maximum height for the pallets, otherwise freighters should be used.

The price is three times more normally than sea or land.

If the reservation has connections with other airports or stopovers, until all the cargo that includes the AWBL arrives at the destination, it cannot be dispatched.

There are few days off at the airport terminal, both for export and import. They are usually between 3 and 4 days.

Due to the current situation, prices may change without prior notice.

There are destinations that require acceptance by the receiver of the cargo, as in the case of goods with refrigerated cargo.

Storage as well as inspections have a high cost that must be assessed on a case-by-case basis with the total number of packages, kg and measurements.

## **5 APPLICATIONS**

The objective of safety management in the aviation industry is to prevent human injury or loss of life, and to avoid damage to the environment and to property.

## **6 CONCLUSION**

The majority of these accidents (60%) occur due to poor planning or inadequate in-flight decision-making, while 40% are caused by fuel starvation, where the aircraft had fuel, but the pilot couldn't access it. There should be no excuse for these types of accidents. Proper planning is an essential duty of any pilot. The majority of these accidents (60%) occur due to poor planning or inadequate in-flight decision-making, while 40% are caused by fuel starvation, where the aircraft had fuel, but the pilot couldn't access it. There should be no excuse for these types of accidents. Proper planning is an essential duty of any pilot.

Hence it show the details information about plane crash

## **7 FUTURE SCOPE**

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.

## **8 APPENDIX**



In appendix we are attached,

## Home, Dashboard, Story pages HTML Source Code

### Home page HTML

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

<head>
  <meta charset="utf-8">
  <title>Home</title>

  <!-- mobile responsive meta -->
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <meta name="viewport" content="width=device-width, initial-scale=1, maximum-
scale=1">

  <!-- ** Plugins Needed for the Project ** -->
  <!-- Bootstrap -->
  <link rel="stylesheet" href="plugins/bootstrap/bootstrap.min.css">
  <!-- themefy-icon -->
  <link rel="stylesheet" href="plugins/themify-icons/themify-icons.css">
  <!-- slick slider -->
  <link rel="stylesheet" href="plugins/slick/slick.css">
  <!-- venobox popup -->
  <link rel="stylesheet" href="plugins/Venobox/venobox.css">
  <!-- aos -->
  <link rel="stylesheet" href="plugins/aos/aos.css">

  <!-- Main Stylesheet -->
  <link href="css/style.css" rel="stylesheet">

  <!--Favicon-->
  <link rel="shortcut icon" href="images/favicon.ico" type="image/x-icon">
  <link rel="icon" href="images/favicon.ico" type="image/x-icon">
</head>

<body>

<!-- navigation -->
```

```

<section class="fixed-top navigation">
  <div class="container">
    <nav class="navbar navbar-expand-lg navbar-light">
      <h4>Data Analysis</h4>
      <button class="navbar-toggler border-0" type="button" data-
toggle="collapse" data-target="#navbar" aria-controls="navbar"
      aria-expanded="false" aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
      </button>
      <!-- navbar -->
      <div class="collapse navbar-collapse text-center" id="navbar">
        <ul class="navbar-nav ml-auto">
          <li class="nav-item">
            <a class="nav-link" href="dashboard.html">Dashboard</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="story.html">Story</a>
          </li>
          <li class="nav-item">
            <a class="nav-link page-scroll" href="#team">Team</a>
          </li>
        </ul>
        <a href="index.html" class="btn btn-primary ml-lg-3 primary-
shadow">Home</a>
      </div>
    </nav>
  </div>
</section>
<!-- /navigation -->

<!-- hero area -->
<section class="hero-section hero" data-background="" style="background-image:
url(images/hero-area/banner-bg.png);">
  <div class="container">
    <div class="row">
      <div class="col-lg-12 text-center zindex-1">
        <h1 class="mb-3">The Tragedy of Flight<br>
        A Comprehensive Crash Analysis</h1><br><br>
        <a href="dashboard.html" class="btn btn-secondary btn-lg">explore us</a>
        <!-- banner image -->

      </div>
    </div>
  </div>
  <!-- background shapes -->

```

```

<div id="scene">
  
  
  
  
  
  
  
  
  
</div>
</section>

<!-- team -->
<section class="section-lg team" id="team">
  <div class="container-fluid">
    <div class="row">
      <div class="col-lg-12 text-center">
        <h2 class="section-title">Our Team</h2>
        <p class="mb-100"></p>
      </div>
    </div>
    <div class="col-10 mx-auto">
      <div class="team-slider">
        <!-- team-member -->
        <div class="team-member">
          <div class="d-flex mb-4">
            <div class="align-self-center">
              <h4>Kavya.T</h4>
            </div>
          </div>
          <p>B.Sc Maths<br>Final year<br>Vivekanandha Arts & Science for
Women</p>
        </div>
        <!-- team-member -->
        <div class="team-member">

```

```

        <div class="d-flex mb-4">
            <div class="align-self-center">
                <h4>Kavipriya.K</h4>
            </div>
        </div>
        <p>B.Sc Maths<br>Final year<br>Vivekanandha Arts & Science for
Women</p>
    </div>
    <!-- team-member -->
    <div class="team-member">
        <div class="d-flex mb-4">
            <div class="align-self-center">
                <h4>Sowmiya.N</h4>
            </div>
        </div>
        <p>B.Sc Maths<br>Final year<br>Vivekanandha Arts & Science for
Women</p>
    </div>
    <!-- team-member -->
    <div class="team-member">
        <div class="d-flex mb-4">
            <div class="align-self-center">
                <h4>Keerthana.P</h4>
            </div>
        </div>
        <p>B.Sc Maths<br>Final year<br>Vivekanandha Arts & Science for
Women</p>
    </div>
</div>
<!-- background image -->

<!-- background shapes -->




</section>
<!-- /team -->

```

```

<!-- footer -->
<footer class="footer-section footer" style="background-image:
url(images/backgrounds/footer-bg.png);">
  <div class="container">
    <div class="row">
      <div class="col-lg-4 text-center text-lg-left mb-4 mb-lg-0">
        <!-- logo -->
        <h3>Data Analysis</h3>
      </div>
      <!-- footer menu -->
      <nav class="col-lg-8 align-self-center mb-5">
        <ul class="list-inline text-lg-right text-center footer-menu">
          <li class="list-inline-item active"><a href="index.html">Home</a></li>
          <li class="list-inline-item"><a
href="dashboard.html">Dashboard</a></li>
          <li class="list-inline-item"><a href="story.html">Story</a></li>
          <li class="list-inline-item"><a class="page-scroll"
href="#team">Team</a></li>
        </ul>
      </nav>
      <!-- footer social icon -->
      <nav class="col-12">
        <ul class="list-inline text-lg-right text-center social-icon">
          <li class="list-inline-item">
            <a class="linkedin" href="#"><i class="ti-linkedin"></i></a>
          </li>
          <li class="list-inline-item">
            <a class="black" href="#"><i class="ti-github"></i></a>
          </li>
        </ul>
      </nav>
    </div>
  </div>
</footer>
<!-- /footer -->

<!-- jQuery -->
<script src="plugins/jquery/jquery.min.js"></script>
<!-- Bootstrap JS -->
<script src="plugins/bootstrap/bootstrap.min.js"></script>
<!-- slick slider -->
<script src="plugins/slick/slick.min.js"></script>
<!-- venobox -->
<script src="plugins/Venobox/venobox.min.js"></script>

```

```

<!-- aos -->
<script src="plugins/aos/aos.js"></script>
<!-- Main Script -->
<script src="js/script.js"></script>

</body>
</html>

```

## Dashboard page HTML

```

<!DOCTYPE html>
<html lang="zxx">

<head>
  <meta charset="utf-8">
  <title>Dashboard</title>

  <!-- mobile responsive meta -->
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <meta name="viewport" content="width=device-width, initial-scale=1, maximum-
scale=1">

  <!-- ** Plugins Needed for the Project ** -->
  <!-- Bootstrap -->
  <link rel="stylesheet" href="plugins/bootstrap/bootstrap.min.css">
  <!-- themefy-icon -->
  <link rel="stylesheet" href="plugins/themify-icons/themify-icons.css">
  <!-- slick slider -->
  <link rel="stylesheet" href="plugins/slick/slick.css">
  <!-- venobox popup -->
  <link rel="stylesheet" href="plugins/Venobox/venobox.css">
  <!-- aos -->
  <link rel="stylesheet" href="plugins/aos/aos.css">

  <!-- Main Stylesheet -->
  <link href="css/style.css" rel="stylesheet">

  <!--Favicon-->
  <link rel="shortcut icon" href="images/favicon.ico" type="image/x-icon">
  <link rel="icon" href="images/favicon.ico" type="image/x-icon">

```

```
</head>

<body>

<!-- navigation -->
<section class="fixed-top navigation">
  <div class="container">
    <nav class="navbar navbar-expand-lg navbar-light">

      <h4>Data Analysis</h4>
      <button class="navbar-toggler border-0" type="button" data-
toggle="collapse" data-target="#navbar" aria-controls="navbar"
      aria-expanded="false" aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
      </button>
      <!-- navbar -->
      <div class="collapse navbar-collapse text-center" id="navbar">
        <ul class="navbar-nav ml-auto">
          <li class="nav-item">
            <a class="nav-link" href="index.html">Home</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="story.html">Story</a>
          </li>
          <li class="nav-item">
            <a class="nav-link page-scroll" href="index.html#team">Team</a>
          </li>
        </ul>
        <a href="dashboard.html" class="btn btn-primary ml-lg-3 primary-
shadow">Dashboard</a>
      </div>
    </nav>
  </div>
</section>

<!-- /navigation -->
<!-- header -->
<section class="hero-section hero" data-background="" style="background-image:
url(images/hero-area/banner-bg.png);">
  <div class="container">
    <div class="row">
      <div class="col-lg-12 text-center zindex-1">
        <h1 class="mb-3">Graph Types and Visualizations<br>Dashboard</h1>
```

```

        <p class="mb-4">This Dashboard may utilize a variety of graph types and
        visualizations, including but not limited to bar charts, line<br>charts, scatter
        plots, heat maps, tree maps, bullet graphs, and geographical maps. These graphs
        and visualizations help<br>to present data in a meaningful and easily
        understandable way, allowing users to gain insights and make
        informed<br>decisions based on the information presented</p>

        <!-- banner image -->

    </div>
</div>
</div>
<!-- background shapes -->
<div id="scene">
    
    
    
    
    
    
    
    
    
</div>
</section>
<!-- /header -->
<div class="row">
    <div class="col-lg-12 text-center zindex-1">
        <!-- banner image -->

    </div>
</div>
<!-- dashboard link -->
<div class='tableauPlaceholder' id='viz1682157486465' style='position:
relative'><noscript><a href='#'><img alt='Dashboard 1 '
src='https://public.tableau.com/static/images/da/dashboard
d1_16821518908070/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='dashboard1_16821518908070&#47;Dashboard1' /><param name='tabs'
value='no' /><param name='toolbar' value='yes' /><param name='static_image'
value='https:&#47;&#47;public.tableau.com&#47;static&#47;images&#47;da&#47;dashbo
ard1_16821518908070&#47;Dashboard1&#47;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'
/></object></div>
<script
type='text/javascript'>
var divElement =
document.getElementById('viz1682157486465');
divElement.getElementsByTagName('object')[0];
divElement.offsetWidth > 800 ) {
vizElement.style.width='100%';vizElement.style.height=(divElement.offsetWidth*0.7
5)+'px';} else if ( divElement.offsetWidth > 500 ) {
vizElement.style.width='100%';vizElement.style.height=(divElement.offsetWidth*0.7
5)+'px';} else {
vizElement.style.width='100%';vizElement.style.height='1477px';}
var scriptElement =
document.createElement('script');
scriptElement.src =
'https://public.tableau.com/javascripts/api/viz_v1.js';
vizEle
ment.parentNode.insertBefore(scriptElement, vizElement);
</script>
<!-- /dashboard link -->

<!-- footer -->
<footer class="footer-section footer" style="background-image:
url(images/backgrounds/footer-bg.png);">
<div class="container">
<div class="row">
<div class="col-lg-4 text-center text-lg-left mb-4 mb-lg-0">
<!-- logo -->
<h3>Data Analysis</h3>
</div>
<!-- footer menu -->
<nav class="col-lg-8 align-self-center mb-5">
<ul class="list-inline text-lg-right text-center footer-menu">
<li class="list-inline-item active"><a href="index.html">Home</a></li>
<li class="list-inline-item"><a
href="dashboard.html">Dashboard</a></li>
<li class="list-inline-item"><a href="story.html">Story</a></li>
<li class="list-inline-item"><a class="page-scroll"
href="#team">Team</a></li>
</ul>

```

```

</nav>
<!-- footer social icon -->
<nav class="col-12">
  <ul class="list-inline text-lg-right text-center social-icon">
    <li class="list-inline-item">
      <a class="linkedin" href="#"><i class="ti-linkedin"></i></a>
    </li>
    <li class="list-inline-item">
      <a class="black" href="#"><i class="ti-github"></i></a>
    </li>
  </ul>
</nav>
</div>
</div>
</footer>
<!-- /footer -->

<!-- jQuery -->
<script src="plugins/jquery/jquery.min.js"></script>
<!-- Bootstrap JS -->
<script src="plugins/bootstrap/bootstrap.min.js"></script>
<!-- slick slider -->
<script src="plugins/slick/slick.min.js"></script>
<!-- venobox -->
<script src="plugins/Venobox/venobox.min.js"></script>
<!-- aos -->
<script src="plugins/aos/aos.js"></script>
<!-- Main Script -->
<script src="js/script.js"></script>

</body>
</html>

```

### Story page HTML

```

<!DOCTYPE html>
<html lang="zxx">

<head>
  <meta charset="utf-8">
  <title>Story</title>

```

```

<!-- mobile responsive meta -->
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="viewport" content="width=device-width, initial-scale=1, maximum-
scale=1">

<!-- ** Plugins Needed for the Project ** -->
<!-- Bootstrap -->
<link rel="stylesheet" href="plugins/bootstrap/bootstrap.min.css">
<!-- themefy-icon -->
<link rel="stylesheet" href="plugins/themify-icons/themify-icons.css">
<!-- slick slider -->
<link rel="stylesheet" href="plugins/slick/slick.css">
<!-- venobox popup -->
<link rel="stylesheet" href="plugins/Venobox/venobox.css">
<!-- aos -->
<link rel="stylesheet" href="plugins/aos/aos.css">

<!-- Main Stylesheet -->
<link href="css/style.css" rel="stylesheet">

<!--Favicon-->
<link rel="shortcut icon" href="images/favicon.ico" type="image/x-icon">
<link rel="icon" href="images/favicon.ico" type="image/x-icon">

</head>

<body>

<!-- navigation -->
<section class="fixed-top navigation">
  <div class="container">
    <nav class="navbar navbar-expand-lg navbar-light">

      <h4>Data Analysis</h4>
      <button class="navbar-toggler border-0" type="button" data-
toggle="collapse" data-target="#navbar" aria-controls="navbar"
      aria-expanded="false" aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
      </button>
    <!-- navbar -->
    <div class="collapse navbar-collapse text-center" id="navbar">
      <ul class="navbar-nav ml-auto">
        <li class="nav-item">
          <a class="nav-link" href="index.html">Home</a>

```

```

        </li>
        <li class="nav-item">
            <a class="nav-link" href="dashboard.html">Dashboard</a>
        </li>
        <li class="nav-item">
            <a class="nav-link page-scroll" href="index.html#team">Team</a>
        </li>
    </ul>
    <a href="story.html" class="btn btn-primary ml-lg-3 primary-shadow">Story</a>
</div>
</nav>
</div>
</section>
<!-- /navigation -->
<!-- header-->
<section class="hero-section hero" data-background="" style="background-image:
url(images/hero-area/banner-bg.png);">
    <div class="container">
        <div class="row">
            <div class="col-lg-12 text-center zindex-1">
                <h1 class="mb-3">Graph Types and Visualizations<br>Story</h1>
                <p class="mb-4">This Story may utilize a variety of graph types and
visualizations, including but not limited to line charts,<br>scatter plots, bar
charts, heat maps, and geographical maps. These graphs and visualizations help to
present data in a<br>narrative format, allowing users to explore and analyze data
in a structured and meaningful way. Additionally, a This<br>Story may include
text, images, and other interactive elements to further enhance the<br>narrative
and provide context to the data presented</p>
                <!-- banner image -->

            </div>
        </div>
    </div>
</div>
<!-- background shapes -->
<div id="scene">
    
    
    
    

```

```

        
        
        
        
        
    </div>
</section>
<!-- /header -->
<div class="row">
    <div class="col-lg-12 text-center zindex-1">
        <!-- banner image -->

    </div>
</div>
<!-- story -->
<div class='tableauPlaceholder' id='viz1682157997097' style='position:
relative'><noscript><a href='#'><img alt='Story 1 '
src='https://public.tableau.com/static/images/st/story1_1
6821521205780/Story1/1_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='story1_16821521205780/Story1' /><param name='tabs'
value='no' /><param name='toolbar' value='yes' /><param name='static_image'
value='https://public.tableau.com/static/images/st/story1
_16821521205780/Story1/1.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'
/></object></div>
        <script
type='text/javascript'>                var divElement =
document.getElementById('viz1682157997097');                var vizElement =
divElement.getElementsByTagName('object')[0];                vizElement.style
.width='1016px';vizElement.style.height='991px';                var
scriptElement =
document.createElement('script');                scriptElement.src =
'https://public.tableau.com/javascripts/api/viz_v1.js';                vizEle
ment.parentNode.insertBefore(scriptElement, vizElement);                </script>
<!-- /story -->
<!-- footer -->

```

```

<footer class="footer-section footer" style="background-image:
url(images/backgrounds/footer-bg.png);">
  <div class="container">
    <div class="row">
      <div class="col-lg-4 text-center text-lg-left mb-4 mb-lg-0">
        <!-- logo -->
        <h3>Data Analysis</h3>
      </div>
      <!-- footer menu -->
      <nav class="col-lg-8 align-self-center mb-5">
        <ul class="list-inline text-lg-right text-center footer-menu">
          <li class="list-inline-item active"><a href="index.html">Home</a></li>
          <li class="list-inline-item"><a
href="dashboard.html">Dashboard</a></li>
          <li class="list-inline-item"><a href="story.html">Story</a></li>
          <li class="list-inline-item"><a class="page-scroll"
href="#team">Team</a></li>
        </ul>
      </nav>
      <!-- footer social icon -->
      <nav class="col-12">
        <ul class="list-inline text-lg-right text-center social-icon">
          <li class="list-inline-item">
            <a class="linkedin" href="#"><i class="ti-linkedin"></i></a>
          </li>
          <li class="list-inline-item">
            <a class="black" href="#"><i class="ti-github"></i></a>
          </li>
        </ul>
      </nav>
    </div>
  </div>
</footer>
<!-- /footer -->

<!-- jQuery -->
<script src="plugins/jquery/jquery.min.js"></script>
<!-- Bootstrap JS -->
<script src="plugins/bootstrap/bootstrap.min.js"></script>
<!-- slick slider -->
<script src="plugins/slick/slick.min.js"></script>
<!-- venobox -->
<script src="plugins/Venobox/venobox.min.js"></script>
<!-- aos -->
<script src="plugins/aos/aos.js"></script>

```

```
<!-- Main Script -->  
<script src="js/script.js"></script>  
  
</body>  
</html>
```