

Smart
Internz

ANALYSIS OF RAINFALL IN INDIA USING TABLEAU

SUBMITTED BY

TEAM NO: 237

VANCHA ANKITHA REDDY - 20BCT0041

UNNA JITENDRA - 20BCT0217

SR VIGNESH - 20BKT0047

DLVP PRAJITH - 20BBS0130

1. INTRODUCTION

The study of precipitation in India from 1901 to 2015 offers important new understandings of the long-term changes and patterns of precipitation across the nation. Experts can spot differences in monsoon patterns, seasonal distribution, and regional rainfall disparities by looking at historical rainfall data during this lengthy time.

Understanding the effects of rainfall on agriculture, water resources, and climate dynamics is made easier by this methodology. Additionally, it serves as a framework for research into how climate change is affecting India's rainfall patterns and supports the creation of plans for disaster preparedness and sustainable water management.

This investigation has two separate aims. It initially aims to look at how rainfall varies from year to year in different parts of India. This study will make it feasible to discern between wet and dry seasons by revealing the interannual fluctuations in rainfall. The second objective of this study is to find long-term trends in rainfall that may be utilized to comprehend how climate change influences precipitation patterns.

This study's findings have significant implications for India's strategies for managing water resources, agriculture, and climate change adaptation. Understanding historical rainfall patterns and spotting trends can be useful in creating efficient policies and procedures to decrease the negative effects of droughts, floods, and erratic rainfall.

1.1 Overview

Studying and understanding past, present, and future patterns of precipitation across India is part of the analysis of rainfall there. It includes a variety of elements, including seasonal changes, regional differences, monsoonal variations, and long-term trends.

Experts may learn more about the effects of climate change, agricultural planning, drought, and flood control, and water resource availability by evaluating rainfall data. Understanding the intricate relationships between rainfall, agriculture, hydrology, and ecosystems is made easier by the analysis. It aids decision-makers and stakeholders in managing water resources, preparing for disasters, and promoting sustainable development.

1.2 Purpose

Gaining a thorough knowledge of the long-term patterns, trends, and variations in precipitation across the nation is the goal of the analysis of rainfall in India from 1901 to 2015. This analysis fulfills a number of crucial functions:

A historical perspective on rainfall patterns in different regions of India is given by looking at rainfall data collected over a sizable period of time. In doing so, it becomes easier to spot repeating patterns, interannual variability, and probable climatic cycles.

Agricultural Planning: It is essential to comprehend past rainfall trends while planning an agricultural operation. In order to maximize agricultural output and reduce the hazards associated with water shortages or excessive rainfall, it aids farmers, policymakers, and agricultural specialists in deciding on optimum crop choices, irrigation systems, and resource allocation.

Analysis of rainfall data is helpful in determining the distribution and availability of water resources. It offers information on water storage, groundwater recharge, and the availability of surface water, aiding in the management of water resources, especially in regions reliant on monsoon rains.

Impacts of Climate Change: Examining the effects of climate change involves analyzing rainfall data collected over a lengthy period of time. It provides important insights for climate modeling, analyzing climate change trends, and creating adaptation plans to deal with the changing dynamics of rainfall by identifying any shifts or variations in rainfall patterns, intensity, or seasonality.

Disaster Preparedness: The identification of areas vulnerable to droughts or floods is aided by the examination of historical rainfall data. For disaster management authorities to create early warning systems, preparedness plans, and mitigation techniques to lessen the effects of extreme weather occurrences, this information is essential.

Overall, the study of rainfall in India from 1901 to 2015 provides a basis for making educated decisions, managing water resources sustainably, planning agricultural projects, and comprehending how climate change affects precipitation patterns. It aids in the creation of plans and regulations that guarantee the effective use of water resources and reduce the dangers brought on by shifting patterns of precipitation.

2. LITERATURE SURVEY

2.1 Existing problem

Rainfall in India is problematic due to unpredictable distribution and seasonal variations. From June through September, the monsoon season supplies critical rainfall, but its failure can result in droughts, crop failures, and water scarcity. Heavy monsoon rains, on the other hand, cause devastating floods, displacing people and destroying infrastructure. There are regional variances, with some areas receiving significant rainfall while others have drier conditions. Climate change exacerbates these issues by causing unpredictable weather patterns and increasing the frequency of extreme events. To address these concerns, better water management, climate-resilient agriculture, infrastructure development, and disaster management are required. Investments in research, early warning systems, and environmentally sustainable practises are critical for alleviating India's rainfall-related problems.

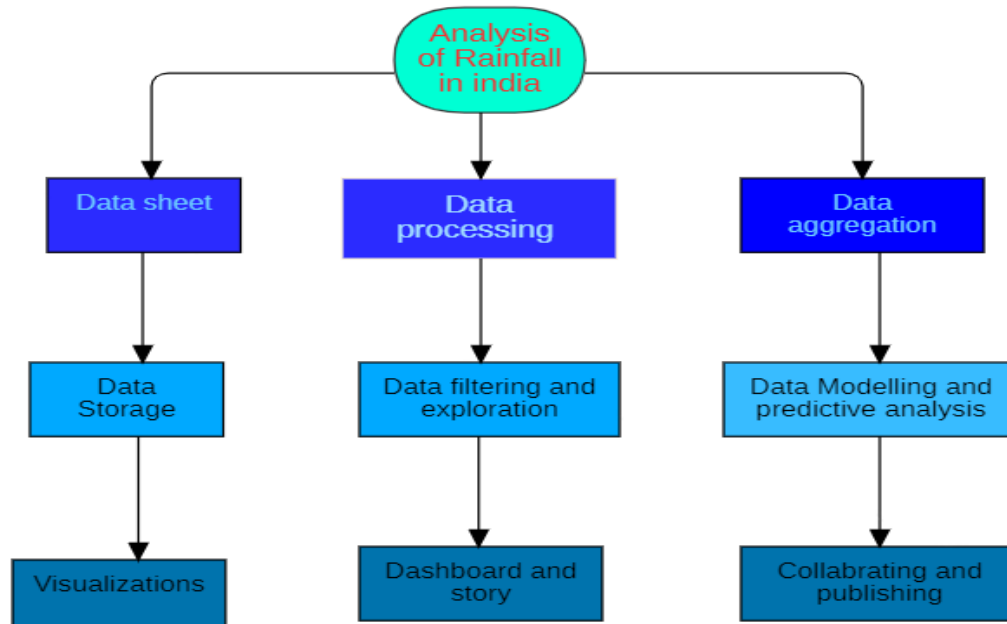
Several viable strategies can be used to reduce the detrimental effects of rainfall. Stormwater management systems that are durable, such as retention ponds, green infrastructure, and permeable pavements, help to prevent urban flooding and improve water infiltration. Watershed management techniques such as afforestation, contour ploughing, and terracing prevent soil erosion while increasing water retention capacity. Creating early warning systems and disaster preparedness programmes helps to reduce the dangers of flooding and landslides. Crop susceptibility to extreme rainfall events is reduced by promoting sustainable agriculture practises such as crop rotation, agroforestry, and precision irrigation. Furthermore, well-designed drainage systems and reservoirs aid in water storage and distribution during dry periods, assuring continual water availability for varied applications.

2.2 Proposed solution

We can use existing data to identify trends that will aid us in making better decisions. Pattern identification and data analysis techniques are critical for mitigating the detrimental effects of rainfall. Effective methods can be developed by analysing rainfall patterns and historical data. To inform decision-making processes, these methods involve identifying trends, extreme events, and the spatial distribution of rainfall. With precise rainfall projections, stakeholders can put in place measures such as enhanced drainage systems, flood control infrastructure, early warning systems, and urban design initiatives to reduce risks and damage caused by heavy rain. Furthermore, data analysis aids in the identification of sensitive locations, the optimization of water resource management, and the support of agricultural practices, ultimately decreasing the negative impacts of rainfall and increasing resilience in the face of changing climatic circumstances.

3. THEORETICAL ANALYSIS

3.1 Block Diagram



3.2 Software Designing

Tableau Desktop and Tableau Public Server:

Tableau Public Server and Tableau Desktop are two components of the Tableau software suite that serve different purposes in data visualization and sharing.

Tableau Desktop:

Tableau Desktop is a robust data visualization and analysis tool designed for individuals and organizations to create interactive and visually appealing visualizations. It provides a user-friendly interface that allows users to connect to various data sources, transform raw data, and build insightful visualizations without the need for complex coding. With Tableau Desktop, users can create charts, graphs, maps, and dashboards, apply filters and calculations, and perform advanced analytics on their data. It offers a wide range of features and functionalities to explore and present data in a meaningful way. Tableau Desktop is typically used by analysts and data professionals to develop visualizations and gain insights from data.

Tableau Public Server:

Tableau Public Server is a cloud-based platform provided by Tableau that allows users to publish and share their interactive visualizations created in Tableau Desktop with a wider audience. It is a free hosting service specifically designed for public-facing data visualization projects. With Tableau Public Server, users can publish their Tableau workbooks and dashboards to the Tableau Public website, making them accessible to anyone on the internet. The visualizations can be embedded in websites, shared via social media, or accessed directly on the Tableau Public website. Tableau Public Server offers limited functionality compared to the paid version of Tableau Server but serves as an excellent platform for showcasing data-driven stories and engaging with a broader audience.

In summary, Tableau Desktop is the powerful desktop application used for creating sophisticated visualizations and performing in-depth data analysis, while Tableau Public Server is the cloud-based platform for publishing and sharing interactive visualizations with the public. Together, they provide a comprehensive solution for data visualization, analysis, and sharing.

Bootstrap:

Bootstrap is an open-source front-end framework that provides a collection of tools, templates, and pre-designed components to facilitate the development of responsive and mobile-friendly websites and web applications. It incorporates HTML, CSS, and JavaScript to offer a standardized and efficient approach to web design and development. Bootstrap simplifies the process of creating visually appealing and consistent web interfaces by providing a grid system for layout structuring, a set of customizable UI components, and a responsive design philosophy that ensures optimal display across different devices and screen sizes. It has gained significant popularity due to its ease of use, flexibility, and extensive community support.

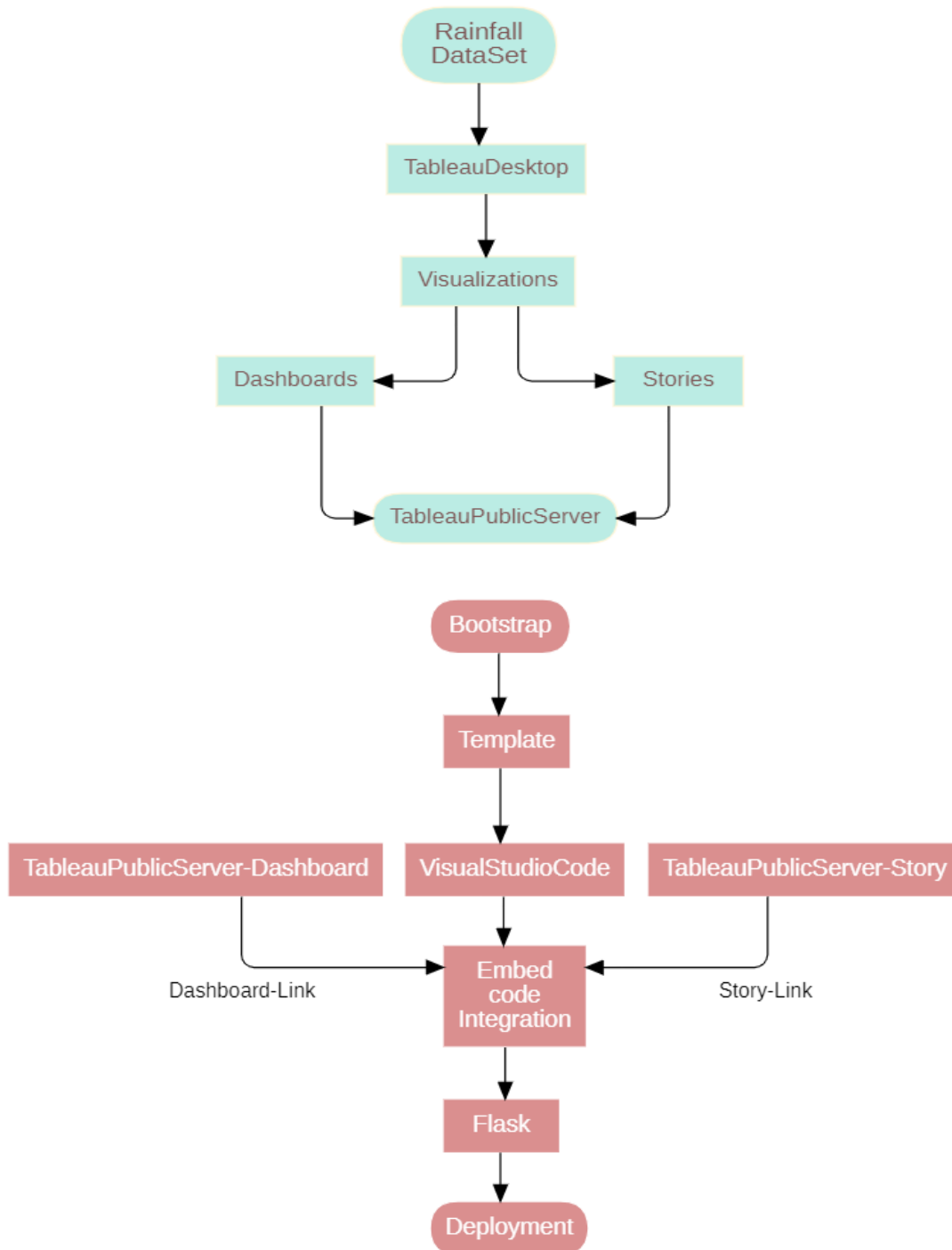
Flask:

Flask is a lightweight and flexible web framework written in Python. It provides a simple and elegant way to build web applications and APIs. Flask follows a "micro" framework approach, focusing on simplicity and extensibility. It offers features such as URL routing, template rendering using Jinja2, and a modular design philosophy that allows developers to add or remove components as needed. Flask is known for its ease of use, minimalistic nature, and extensive ecosystem of extensions, making it a popular choice for developers looking to create web applications with Python.

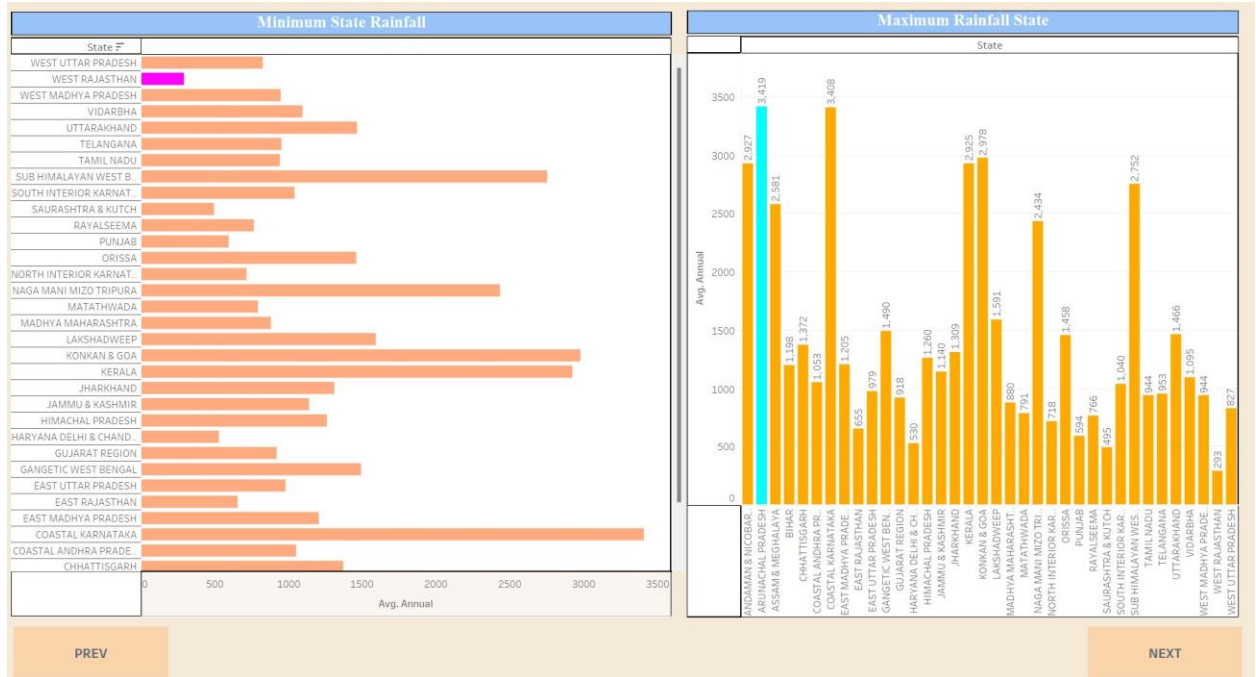
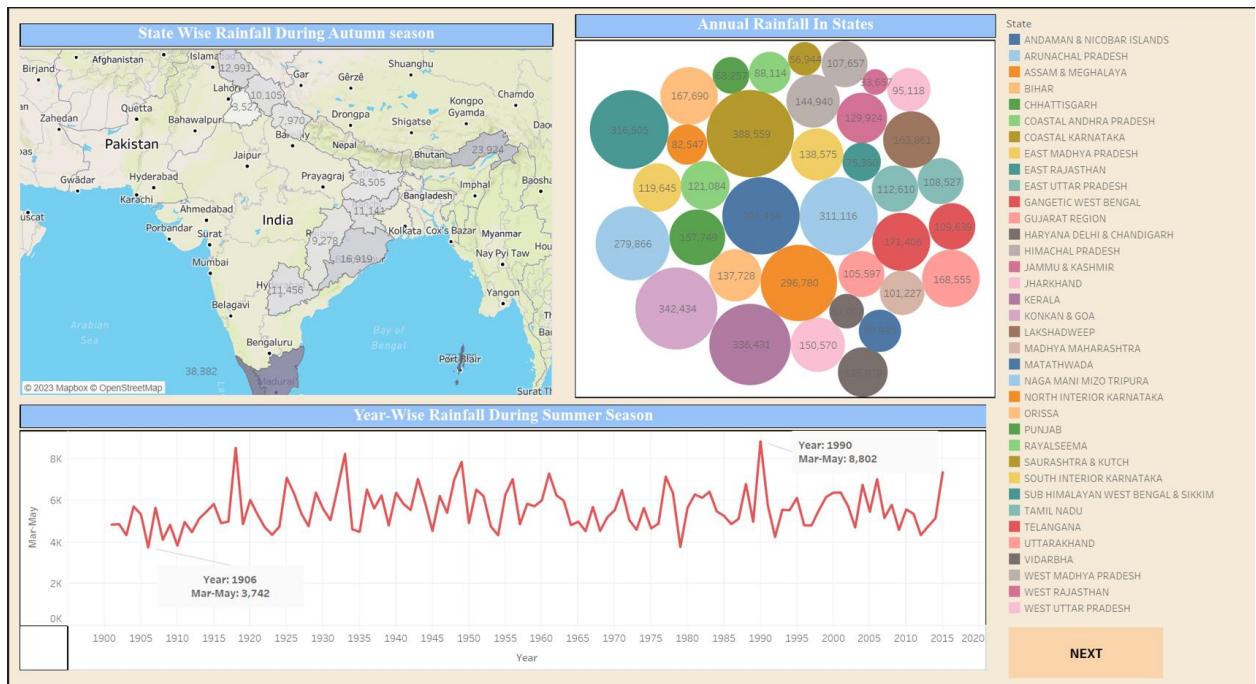
4. EXPERIMENTAL INVESTIGATIONS

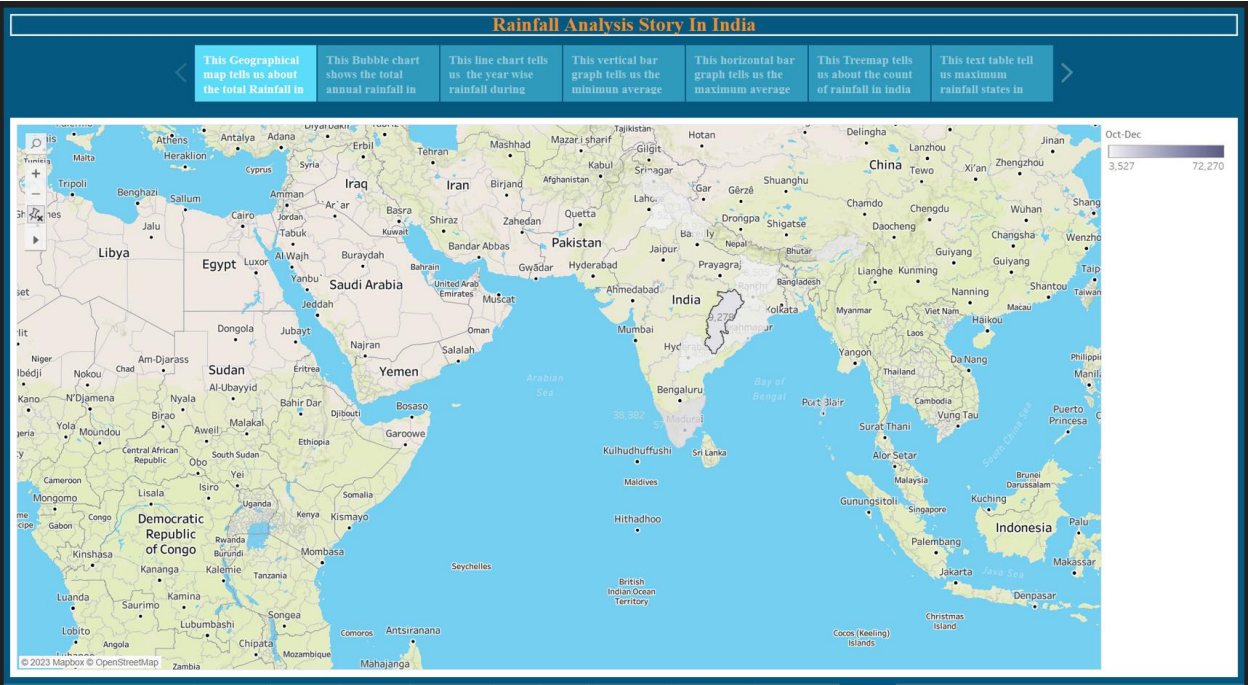
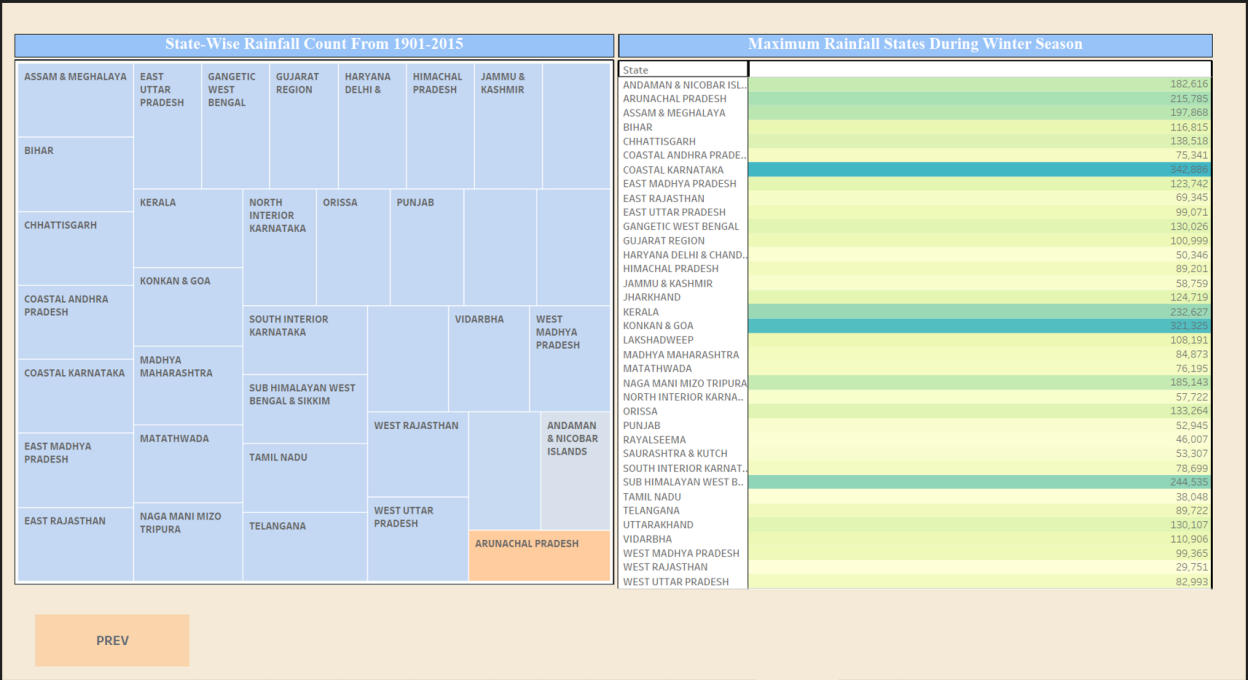
- Here, we illustrated this by creating a heatmap on the dashboard and analyzing the state-by-state amount of rainfall for each state.
- Here, we illustrated this by creating a bubble chart on the dashboard and analyzing the amount of annual rainfall in each state.
- Here, we put a horizontal bar on the dashboard, assessed the rainfall, and showed you how this works. The region with the most rainfall was Arunachal Pradesh.
- Here, we illustrated this by creating a vertical bar in the dashboard, analyzing the precipitation, West Rajasthan received the least amount of rain.
- Here, we illustrated this by analyzing the state-by-state rainfall during the autumn season using maps in the dashboard.
- Here, we illustrated this using a line chart on the dashboard to examine the rainfall throughout the summer months as a result of decreased rainfall, line chart was simple and practical to work with.
- Here, we illustrated this by analyzing the state-by-state rainfall during the winter using the dashboard's tables.

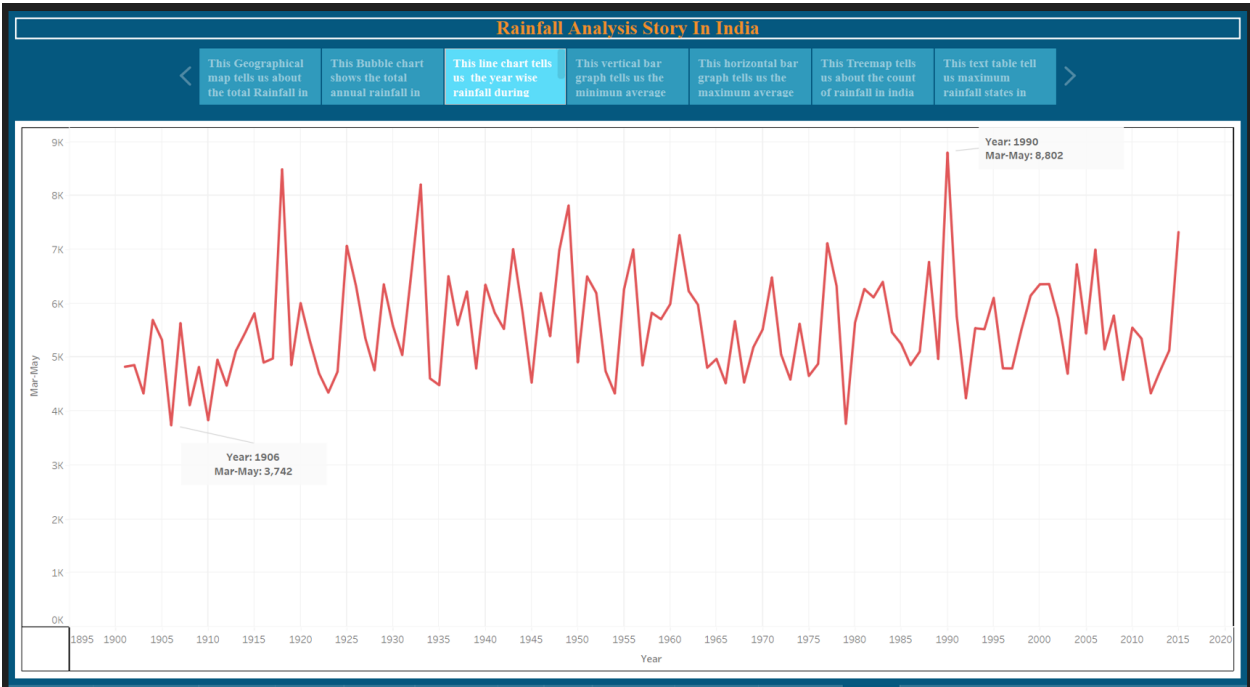
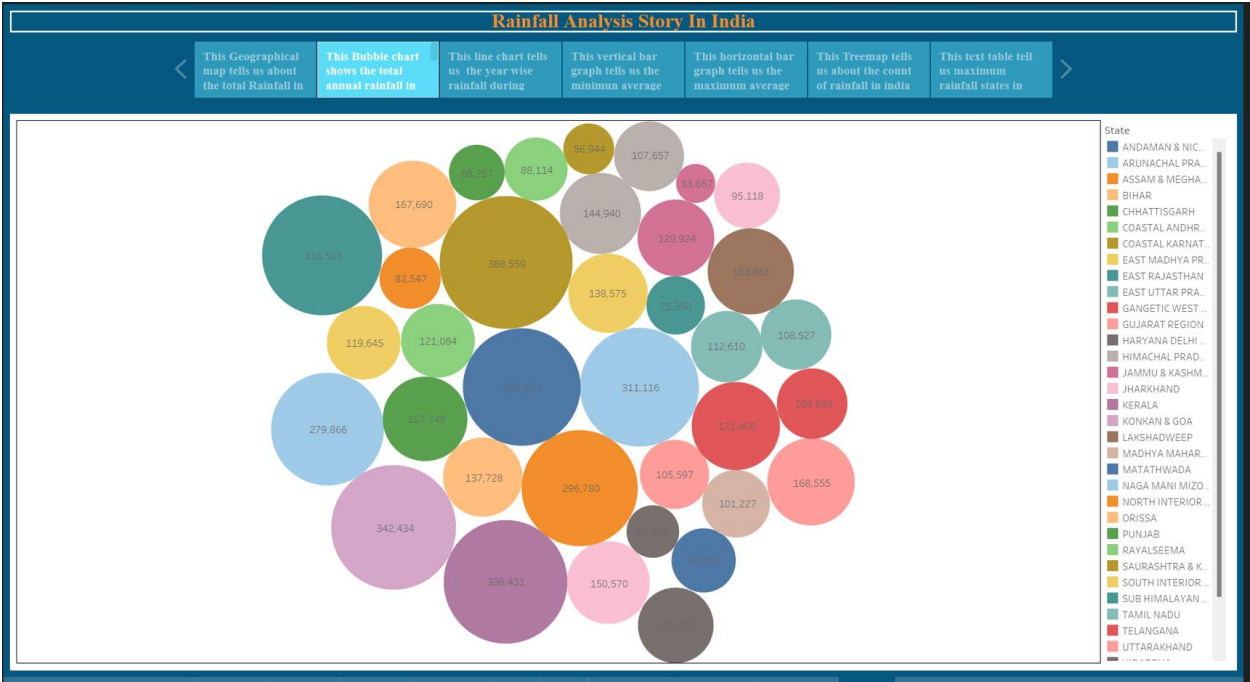
5. FLOWCHART

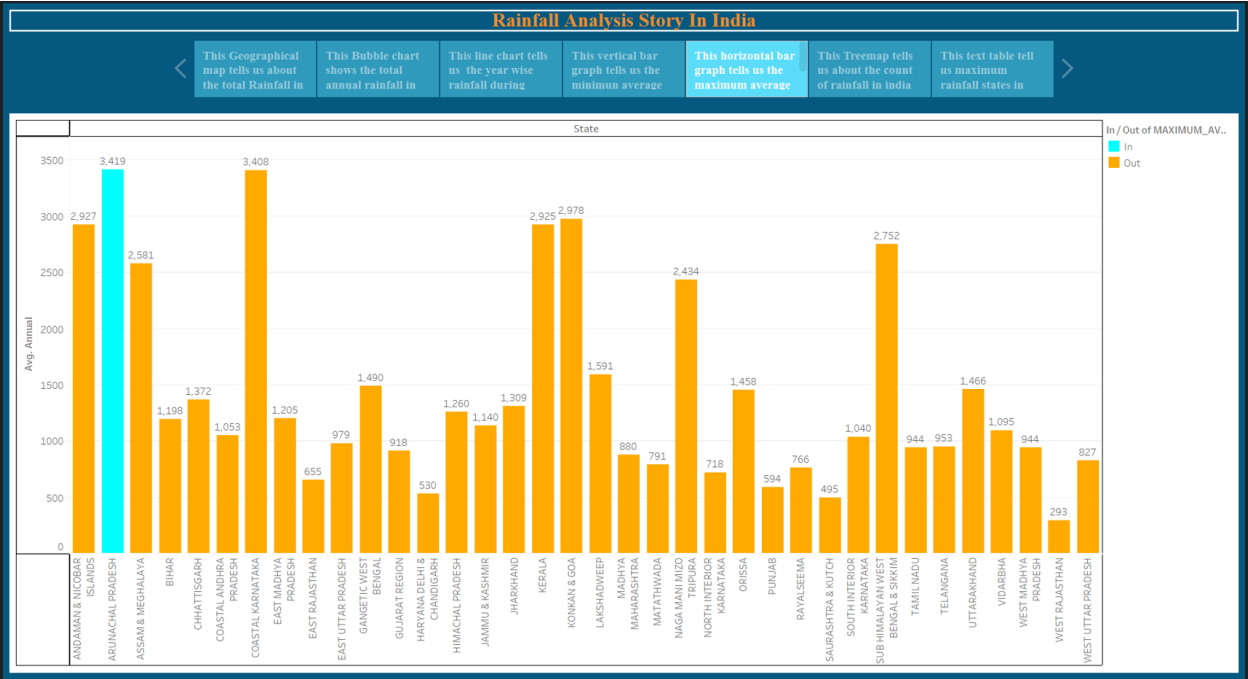
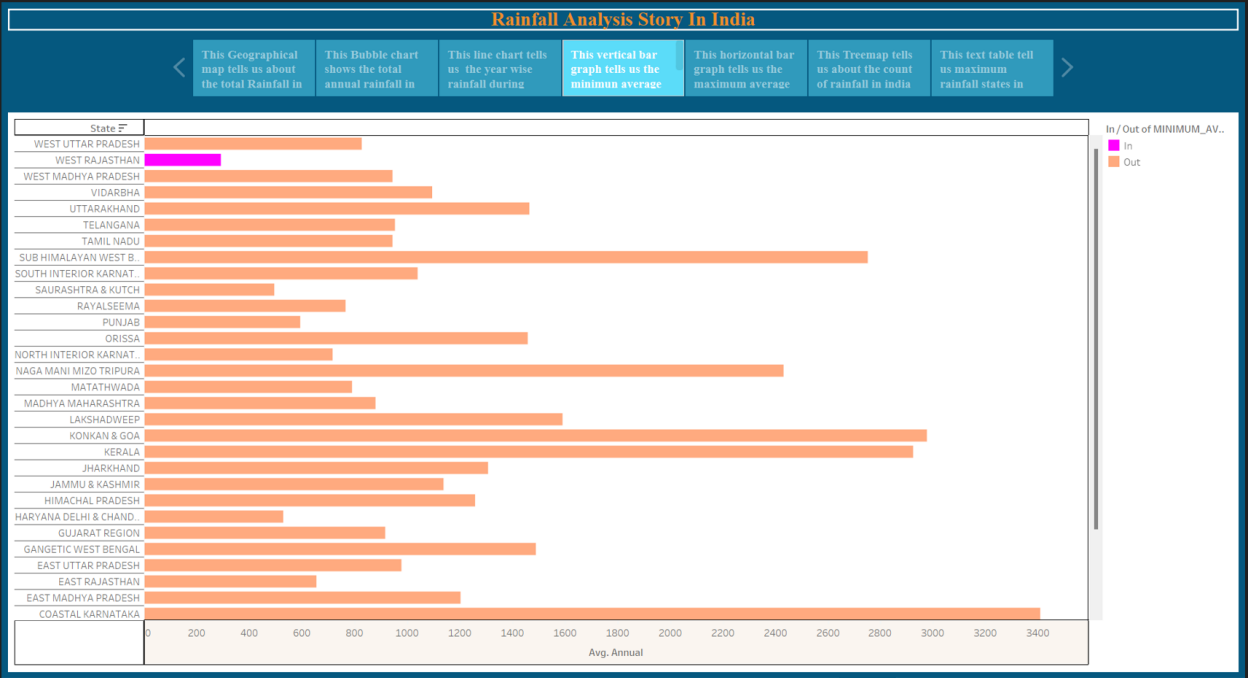


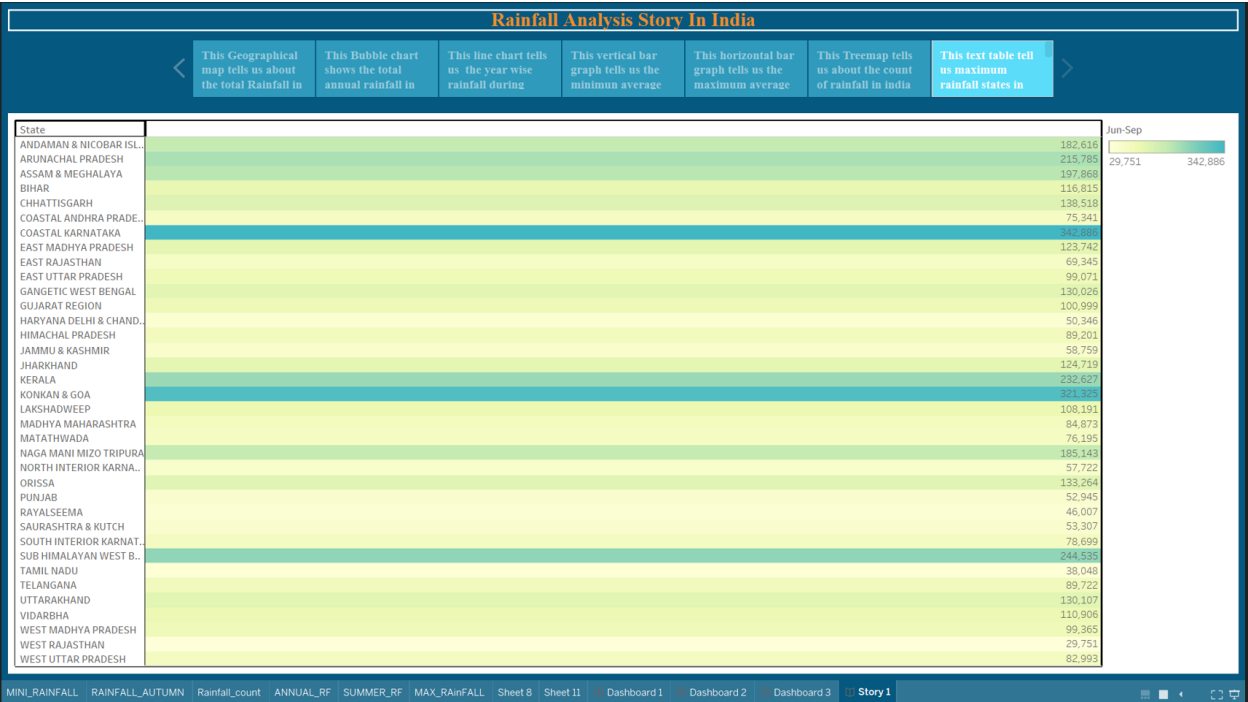
6. RESULT











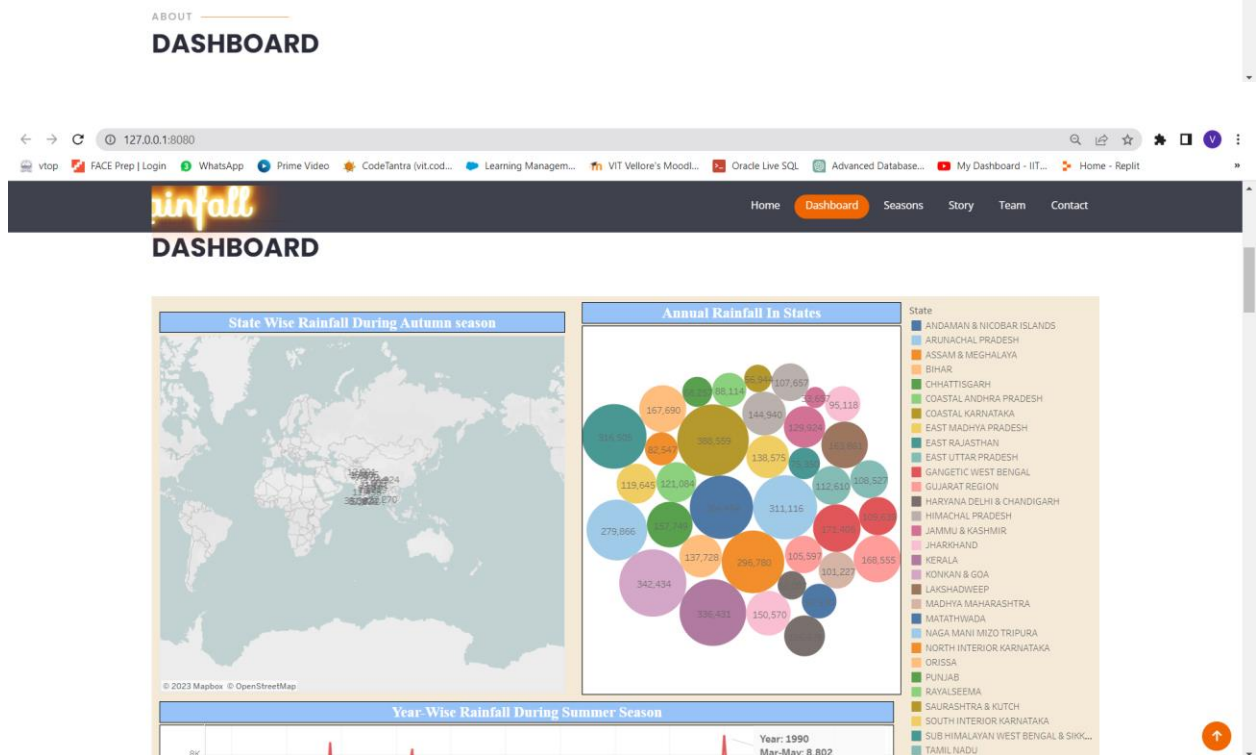
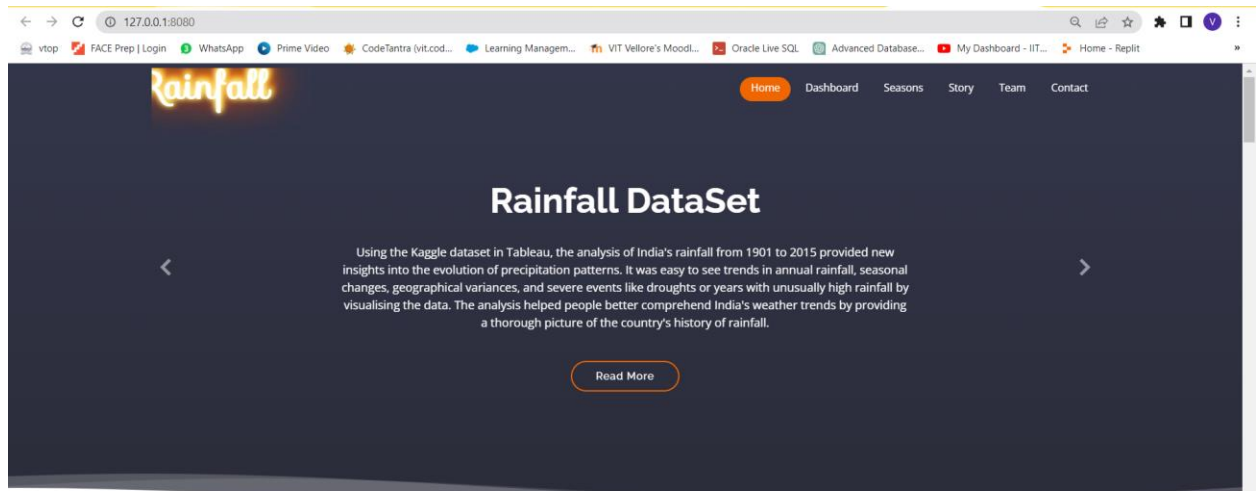


 Tableau Desktop

 Bootstrap

 Flask

 Advantages
Disadvantages

Tableau Desktop

Tableau Desktop is a robust data visualization and analysis tool designed for individuals and organizations to create interactive and visually appealing visualizations. It provides a user-friendly interface that allows users to connect to various data sources, transform raw data, and build insightful visualizations without the need for complex coding. With Tableau Desktop, users can create charts, graphs, maps, and dashboards, apply filters and calculations, and perform advanced analytics on their data. It offers a wide range of features and functionalities to explore and present data in a meaningful way. Tableau Desktop is typically used by analysts and data professionals to develop visualizations and gain insights from data.

- ✔ Powerful data visualization and analysis tool.
- ✔ User-friendly interface for creating interactive visualizations.
- ✔ Connects to various data sources and transforms raw data.

Offers a wide range of visualization options (charts, graphs, maps, etc.). Allows for data exploration, filtering, and advanced statistical analysis. Supports the creation of interactive dashboards. Used by analysts and data professionals for data visualization and analysis



Call To Action

A comprehensive and in-depth study is needed to better understand the long-term rainfall trends, patterns, and changes in India from 1905 to 2015. This is the call to action for rainfall analysis in India. Regional impacts, climate variability, and monsoon dynamics should all be included in this research. In order to lessen the effects of rainfall variability on India's economy and society, we can develop effective water resource management strategies, implement targeted agricultural practises, and improve our ability to predict and adapt to future climate changes.

CALL TO ACTION

SEASONS


 **Spring**
Spring is a season of rejuvenation and renewal. It marks the transition from winter to summer. During spring, temperatures gradually rise, and nature comes alive.


 **Summer**
Summer is a season of warmth and sunshine. It brings longer days and opportunities for outdoor activities. People often enjoy vacations, beaches, and relaxation during this time.


 **Monsoon**
Monsoon season is characterized by heavy rainfall. It usually occurs in tropical and subtropical regions. The rains provide relief from the heat and help support agricultural activities.





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 **Autumn**
Autumn, also known as fall, is a season of colorful transformation. Leaves change their colors, temperatures cool down, and nature prepares for the arrival of winter.

 **Pre-winter**
Pre-winter is the transitional season between autumn and winter. It features cooler temperatures and hints of winter's arrival, with foliage changes and occasional chilly weather.

 **Winter**
Winter is the coldest season of the year. It is often associated with snow, cold temperatures, and cozy indoor activities.

STORY





F. A. Q

FREQUENTLY ASKED QUESTIONS

- ✓ What is the overall trend of rainfall in India from 1901 to 2015?
- ✓ Are there any significant changes or variations in the rainfall patterns over this period?
- ✓ How does the rainfall analysis from 1901 to 2015 compare to recent years or decades?
- ✓ What are the seasonal rainfall patterns in different parts of India during this period?
- ✓ Can the rainfall data be used to predict future climate patterns in India?
- ✓ How reliable is the rainfall data collected and recorded from 1901 to 2015?

TEAM NUMBER 237

OUR HARDWORKING TEAM

Ankitha Reddy is a motivated student who is pursuing a Bachelor of Technology (B. Tech) in Computer Science and Engineering (CSE) at the Vellore Institute of Technology (VIT).

V ANKITHA
Team Member

Jitendra is a motivated student who is pursuing a Bachelor of Technology (B. Tech) in Computer Science and Engineering (CSE) at the Vellore Institute of Technology (VIT).

U JITENDRA
Team Member

Vignesh is a motivated student who is pursuing a Bachelor of Technology (B. Tech) in Computer Science and Engineering (CSE) at the Vellore Institute of Technology (VIT).

SR VIGNESH
Team Member

Prajith is a motivated student who is pursuing a Bachelor of Technology (B. Tech) in Computer Science and Engineering (CSE) at the Vellore Institute of Technology (VIT).


DLVP PRAJITH
Team Member

CONTACT


CONTACT US

CONTACT


CONTACT US



Location:
Vellore Institute Of Technology,Vellore-
632014,TN,India




Email:
vanchaankitha.reddy2020@vitstudent.ac.in
unna.jitendra2020@vitstudent.ac.in
vignesh.sr2020@vitstudent.ac.in
prajith.dvp2020@vitstudent.ac.in




Call:
+91 8096396303
+91 9494564107
+91 9177314713

Send Message



Email:
vanchaankitha.reddy2020@vitstudent.ac.in
unna.jitendra2020@vitstudent.ac.in
vignesh.sr2020@vitstudent.ac.in
prajith.dvp2020@vitstudent.ac.in



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+91 9494564107
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The analysis of rainfall in India emphasizes the importance of understanding and adapting to the country's diverse and changing precipitation patterns for sustainable development.



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7. ADVANTAGES AND DISADVANTAGES

- Rainfall analysis helps with the assessment of the distribution and availability of water resources across the nation. It aids in the planning of water storage, the production of hydroelectric power, and the effective distribution of water for home and industrial use.
- Drought and Flood Management: By examining rainfall data, officials may pinpoint areas that are vulnerable to drought or unusually heavy rain, allowing early warning systems and catastrophe planning. By using suitable measures like infrastructure design and water conservation practices, it will be easier to lessen the effects of droughts and floods.

- Studying long-term climatic patterns and comprehending the effects of climate change are made possible through rainfall analysis. It aids in detecting changes in rainfall patterns, intensity, and seasonality and offers helpful insights for climate modeling and adaptation plans.
- Data Availability and Accuracy: In India, various areas have varied standards for collecting and analyzing rainfall data. A thorough examination and precise decision-making may be hampered in some areas by the lack of data or the reliability of that data.
- Resolution in Space and Time: The geographic and temporal resolution of rainfall data can have an effect on the analysis's precision. Higher resolution data are necessary for fine-grained analysis, but they may not always be readily available across the nation.
- Lack of Integration with Other elements: Lack of integration with other elements, such as temperature, humidity, or land use, might restrict our knowledge of the intricate relationships affecting agriculture, hydrology, and ecosystems.

8. APPLICATIONS

Rainfall analysis in India has a wide range of applications in a variety of industries.

- Long-term rainfall data analysis is a component of this research. As a result, scientists are better able to analyze trends and changes in rainfall patterns, evaluate the effects of climate change on precipitation, and research climate dynamics for future forecasts and adaptation plans.
- Historical rainfall data analysis is essential to disaster preparedness. Understanding the frequency and severity of extreme weather occurrences makes it possible for authorities to create plans for disaster management, evacuation, and emergency response.
- By spotting patterns and trends in rainfall distribution, historical rainfall data analysis aids in agricultural planning. Based on previous rainfall trends in their area, farmers may choose crops, manage irrigation systems, and allocate resources wisely.
- It assists in assessing the requirement for water storage, groundwater replenishment, and surface water management, assuring the sustainable use of water resources.
- Assessing locations vulnerable to droughts and floods requires a thorough understanding of past rainfall patterns. To lessen the effects of extreme weather occurrences, the analysis is useful in creating early warning systems, putting drought mitigation plans into action, and organizing flood control measures.

9. CONCLUSION

The study of precipitation in India between 1901 and 2015, in summary, offers important new understandings of the long-term trends, patterns, and variations in precipitation across the nation. This in-depth investigation provides a historical perspective on studies of rainfall, water resource management, and climate change. In-depth knowledge of the distribution, variability, and effects of rainfall on different sectors is gained by professionals by analyzing rainfall data over this prolonged time. For decision-makers, policymakers, and other stakeholders involved in designing strategies for sustainable water management, disaster preparedness, and climate change adaptation, the analysis' conclusions are essential. The study of rainfall in India from 1901 to 2015 is an essential tool for comprehending precipitation dynamics and its effects on the nation's environmental health.

10.FUTURE SCOPE

The study of rainfall in India reveals enormous future potential for progress. Improving rainfall analysis under changing climate conditions, integrating satellite-based remote sensing data with ground-based observations, leveraging machine learning and AI techniques for accurate predictions, considering socioeconomic implications, engaging citizen science and crowdsourcing for broader data coverage, and developing user-friendly tools for data visualization and communication are all part of this effort. Exploring these paths can considerably improve the accuracy, applicability, and impact of rainfall analysis, benefiting industries such as agriculture, water resources, disaster preparedness, infrastructure planning, and policymaking. The future of rainfall analysis in India lies in leveraging emerging technologies, integrating diverse datasets, taking socioeconomic factors into account, and encouraging active participation from stakeholders, all of which will lead to informed decision-making and effective adaptation strategies to mitigate the effects of climate change and ensure sustainable development.

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- [2] <https://www.indiaspend.com/wp-content/uploads/2019/02/Trends-in-rainfall-pattern-study.pdf>
- [3] <https://www.sciencedirect.com/science/article/abs/pii/S2352938522000465#preview-section-snippets>
- [4] <https://www.kaggle.com/code/anbarivan/indian-rainfall-analysis-and-prediction>
- [5] <https://www.indiaspend.com/earthcheck/climate-change-is-making-indias-monsoon-more-erratic-780356>

APPENDIX

app.py

```
from flask import Flask, redirect, url_for, render_template

app=Flask(__name__)

@app.route("/")
def Home():
    return render_template(r"index.html")

#main_driver_function
if __name__ == "__main__":
    app.run(debug=False,port=8080)
```

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta content="width=device-width, initial-scale=1.0" name="viewport">
  <title>Rainfall Analysis in India</title>
  <meta content="" name="description">
  <meta content="" name="keywords">
  <!-- Favicons -->
  <link href="static/assets/img/favicon.png" rel="icon">
  <link href="static/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|Raleway:300,300i,400,400i,500,500i,600,600i,700,700i|Poppins:300,300i,400,400i,500,500i,600,600i,700,700i" rel="stylesheet">
  <link rel="stylesheet"
href="https://fonts.googleapis.com/css?family=Sofia&effect=fire|emboss|neon|outline-effect">
  <!-- Vendor CSS Files -->
  <link href="static/assets/vendor/animate.css/animate.min.css" rel="stylesheet">
  <link href="static/assets/vendor/aos/aos.css" rel="stylesheet">
  <link href="static/assets/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet">
  <link href="static/assets/vendor/bootstrap-icons/bootstrap-icons.css" rel="stylesheet">
  <link href="static/assets/vendor/boxicons/css/boxicons.min.css" rel="stylesheet">
  <link href="static/assets/vendor/glightbox/css/glightbox.min.css" rel="stylesheet">
  <link href="static/assets/vendor/remixicon/remixicon.css" rel="stylesheet">
  <link href="static/assets/vendor/swiper/swiper-bundle.min.css" rel="stylesheet">
  <!-- Template Main CSS File -->
  <link href="static/assets/css/style.css" rel="stylesheet">
  <!-- Animation -->
  <style>
```

```
.anima{
color:navy;
animation-name:example;
animation-duration:4s;
animation-delay:2s;
animation-iteration-count:infinite;
}
@keyframes example{
0% {color:red;}
25% {color:#00BFFF;}
50% {color:#800080;}
75% {color:#FF00FF;}
100% {color:green;}
}
</style>
</head>
<body>
<!-- ===== Header ===== -->
<header id="header" class="fixed-top d-flex align-items-center header-transparent ">
  <div class="container d-flex align-items-center justify-content-between">
    <div class="logo">
      <br>
      <br>
      <marquee width="500px" direction="right" height="100px">
        <h1 class="font-effect-fire" style="font-family:Sofia;font-size:50px;"><a
href="index.html">SmartBridge Project</a></h1>
      </marquee>
    </div>
    <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">Dashboard</a></li>
        <li><a class="nav-link scrollto" href="#services">Seasons</a></li>
        <li><a class="nav-link scrollto " href="#portfolio">Story</a></li>
```

```

<li><a class="nav-link scrollto" href="#team">Team</a></li>
<li><a class="nav-link scrollto" href="#contact">Contact</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 flex-column justify-content-end align-items-center">
  <div id="heroCarousel" data-bs-interval="5000" class="container carousel carousel-fade"
data-bs-ride="carousel">
    <!-- Slide 1 -->
    <div class="carousel-item active">
      <div class="carousel-container">
        <h2 class="animate_animated animate_fadeInDown">Analysis Of<span> Rainfall In
India</span></h2>
        <p class="animate_animated fanimate_adeInUp">Rainfall analysis in India involves
studying historical data from meteorological stations to examine patterns, trends, and variations
in precipitation across regions and time periods. This includes calculating averages, anomalies,
and trends to understand deviations from the mean rainfall. Spatial distribution analysis helps
identify areas with higher or lower rainfall and factors influencing these patterns. Exploring the
relationship between rainfall and climatic factors aids in understanding drivers and potential
impacts. This analysis is essential for sectors like agriculture, water management, disaster
preparedness, and policy decisions for climate resilience.</p>
        <a href="#about" class="btn-get-started animate_animated animate_fadeInUp
scrollto">Read More</a>
      </div>
    </div>
    <!-- Slide 2 -->
    <div class="carousel-item">
      <div class="carousel-container">
        <h2 class="animate_animated animate_fadeInDown">Rainfall DataSet</h2>
        <p class="animate_animated animate_fadeInUp">Using the Kaggle dataset in Tableau, the
analysis of India's rainfall from 1901 to 2015 provided new insights into the evolution of

```

precipitation patterns. It was easy to see trends in annual rainfall, seasonal changes, geographical variances, and severe events like droughts or years with unusually high rainfall by visualising the data. The analysis helped people better comprehend India's weather trends by providing a thorough picture of the country's history of rainfall.

```

    <a href="#about" class="btn-get-started animate_animated animate_fadeInUp
scrollto">Read More</a>

  </div>
</div>
<!-- Slide 3 -->
<div class="carousel-item">
  <div class="carousel-container">
    <h2 class="animate_animated animate_fadeInDown">Software Tools Used</h2>
    <p class="animate_animated animate_fadeInUp"><ol type="I" style="color:white;font-
size: 14px;text-align: left;" >
      <li>Tableau Desktop</li>
      <li>Tableau Public Server</li>
      <li>Bootstrap</li>
      <li>Flask</li>
    </ol></p>
    <a href="#about" class="btn-get-started animate_animated animate_fadeInUp
scrollto">Read More</a>
  </div>
</div>
<a class="carousel-control-prev" href="#heroCarousel" role="button" data-bs-slide="prev">
  <span class="carousel-control-prev-icon bx bx-chevron-left" aria-hidden="true"></span>
</a>
<a class="carousel-control-next" href="#heroCarousel" role="button" data-bs-slide="next">
  <span class="carousel-control-next-icon bx bx-chevron-right" aria-hidden="true"></span>
</a>
</div>
<svg class="hero-waves" xmlns="http://www.w3.org/2000/svg"
xmlns:xlink="http://www.w3.org/1999/xlink" viewBox="0 24 150 28 "
preserveAspectRatio="none">
  <defs>

```



```

    <path id="wave-path" d="M-160 44c30 0 58-18 88-18s 58 18 88 18 58-18 88-18 58 18 88
18 v44h-352z">
  </defs>
  <g class="wave1">
    <use xlink:href="#wave-path" x="50" y="3" fill="rgba(255,255,255, .1)">
  </g>
  <g class="wave2">
    <use xlink:href="#wave-path" x="50" y="0" fill="rgba(255,255,255, .2)">
  </g>
  <g class="wave3">
    <use xlink:href="#wave-path" x="50" y="9" fill="#fff">
  </g>
</svg>
</section><!-- End Hero -->
<main id="main">
  <!-- ===== About Section ===== -->
  <section id="about" class="about">
    <div class="container">

      <div class="section-title" data-aos="zoom-out">
        <h2>About</h2>
        <p>Dashboard</p>
      </div>
      <div class='tableauPlaceholder' id='viz1688005988051' style='position: relative'>
        <noscript>
          <a href='#><img alt=' '
src='https://public.tableau.com/static/images/Pr/Project-
Dashboard_16880059402750/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='Project-Dashboard_16880059402750/Dashboard1' />

```

```

    <param name='tabs' value='no' />
    <param name='toolbar' value='yes' />
    <param name='static_image'
value='https://public.tableau.com/static/images/Pr/Project-
Dashboard_16880059402750/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-GB' />
    <param name='filter' value='publish=yes' />
  </object>
</div>
<script type='text/javascript'>
  var divElement = document.getElementById('viz1688005988051');
  var 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 About Section -->
<!-- ===== Features Section ===== -->
<section id="features" class="features">
  <div class="container">

```

```
<ul class="nav nav-tabs row d-flex">
  <li class="nav-item col-3" data-aos="zoom-in">
    <a class="nav-link active show" data-bs-toggle="tab" href="#tab-1">
      <i class="ri-gps-line"></i>
      <h4 class="d-none d-lg-block">TableauDesktop</h4>
    </a>
  </li>
  <li class="nav-item col-3" data-aos="zoom-in" data-aos-delay="100">
    <a class="nav-link" data-bs-toggle="tab" href="#tab-2">
      <i class="ri-body-scan-line"></i>
      <h4 class="d-none d-lg-block">Bootstrap</h4>
    </a>
  </li>
  <li class="nav-item col-3" data-aos="zoom-in" data-aos-delay="200">
    <a class="nav-link" data-bs-toggle="tab" href="#tab-3">
      <i class="ri-sun-line"></i>
      <h4 class="d-none d-lg-block">Flask</h4>
    </a>
  </li>
  <li class="nav-item col-3" data-aos="zoom-in" data-aos-delay="300">
    <a class="nav-link" data-bs-toggle="tab" href="#tab-4">
      <i class="ri-store-line"></i>
      <h4 class="d-none d-lg-block">Advantages Disadvantages</h4>
    </a>
  </li>
</ul>

<div class="tab-content" data-aos="fade-up">
  <div class="tab-pane active show" id="tab-1">
    <div class="row">
      <div class="col-lg-6 order-2 order-lg-1 mt-3 mt-lg-0">
        <h3>Tableau Desktop</h3>
        <p class="fst-italic">
```

Tableau Desktop is a robust data visualization and analysis tool designed for individuals and organizations to create interactive and visually appealing visualizations. It provides a user-friendly interface that allows users to connect to various data sources, transform raw data, and build insightful visualizations without the need for complex coding. With Tableau Desktop, users can create charts, graphs, maps, and dashboards, apply filters and calculations, and perform advanced analytics on their data. It offers a wide range of features and functionalities to explore and present data in a meaningful way. Tableau Desktop is typically used by analysts and data professionals to develop visualizations and gain insights from data.

</p>

<i class="ri-check-double-line"></i>Powerful data visualization and analysis tool.

<i class="ri-check-double-line"></i>User-friendly interface for creating interactive visualizations.

<i class="ri-check-double-line"></i>Connects to various data sources and transforms raw data.

<p>

Offers a wide range of visualization options (charts, graphs, maps, etc.).

Allows for data exploration, filtering, and advanced statistical analysis.

Supports the creation of interactive dashboards.

Used by analysts and data professionals for data visualization and analysis

</p>

</div>

<div class="col-lg-6 order-1 order-lg-2 text-center">

</div>

</div>

</div>

<div class="tab-pane" id="tab-2">

<div class="row">

<div class="col-lg-6 order-2 order-lg-1 mt-3 mt-lg-0">

Bootstrap

Bootstrap

Bootstrap is an open-source front-end framework that provides a collection of tools, templates, and pre-designed components to facilitate the development of responsive and mobile-friendly websites and web applications. It incorporates HTML, CSS, and JavaScript to offer a standardized and efficient approach to web design and development. Bootstrap simplifies the process of creating visually appealing and consistent web interfaces by providing a grid system for layout structuring, a set of customizable UI components, and a responsive design philosophy that ensures optimal display across different devices and screen sizes. It has gained significant popularity due to its ease of use, flexibility, and extensive community support.

-

- Bootstrap* is a popular front-end framework for building responsive and mobile-first websites.

- Bootstrap* offers a responsive grid system that allows for easy layout structuring and adaptation to different screen sizes.

- It* includes a wide range of pre-designed UI components like buttons, forms, navigation bars, cards, modals, and more, which can be easily customized and integrated into websites.

Bootstrap utilizes CSS classes and predefined styles to achieve consistent and visually appealing designs across different browsers and devices.

The framework is highly customizable, allowing developers to modify colors, fonts, spacing, and other design aspects to match their specific needs.

Bootstrap includes JavaScript plugins that enhance interactivity and functionality, such as carousels, dropdowns, tooltips, and modals.

It offers a responsive typography system that ensures optimal readability and legibility on different devices.

Bootstrap has excellent documentation and a large community support, providing resources, templates, and examples for developers.

It is widely adopted and used by developers to streamline and accelerate the web development process.

```

</div>
<div class="col-lg-6 order-1 order-lg-2 text-center">
  
</div>
</div>
</div>
<div class="tab-pane" id="tab-3">
  <div class="row">
    <div class="col-lg-6 order-2 order-lg-1 mt-3 mt-lg-0">

```

```

      <h3>Flask</h3>

```

```

      <p class="fst-italic">

```

Flask is a lightweight and flexible web framework written in Python. It provides a simple and elegant way to build web applications and APIs. Flask follows a "micro" framework approach, focusing on simplicity and extensibility. It offers features such as URL routing, template rendering using Jinja2, and a modular design philosophy that allows developers to add or remove components as needed. Flask is known for its ease of use, minimalistic nature, and extensive ecosystem of extensions, making it a popular choice for developers looking to create web applications with Python.

```

    </p>

```

```

    <ul>

```

```

      <li><i class="ri-check-double-line"></i>Lightweight and versatile web framework
      written in Python.</li>

```

```

      <li><i class="ri-check-double-line"></i>Follows a "micro" framework approach,
      providing essential tools for web development.</li>

```

```

      <li><i class="ri-check-double-line"></i>Routing and URL mapping for defining
      routes and handling different HTTP methods. </li>

```

```

    </ul>

```

```

    <p>

```

Includes a built-in templating engine called Jinja2 for dynamic content rendering. Modular design philosophy allows flexibility in project structure and organization. Vast ecosystem of Flask extensions for additional functionalities and integrations. Suitable for small to medium-sized applications, with scalability for complex requirements.

Active community providing resources, tutorials, and community-driven support.

```

    </p>
  </div>
  <div class="col-lg-6 order-1 order-lg-2 text-center">
    
  </div>
</div>
</div>
<div class="tab-pane" id="tab-4">
  <div class="row">
    <div class="col-lg-6 order-2 order-lg-1 mt-3 mt-lg-0">
      <h3>Advantages Disadvantages</h3>
      <p class="fst-italic">

```

Agriculture Planning: Analysis of rainfall patterns helps in understanding the distribution and variability of rainfall across different regions in India. This information is crucial for agricultural planning, including crop selection, irrigation management, and resource allocation.

```

    </p>
    <ul>
      <li><i class="ri-check-double-line"></i> Water Resource Management: Rainfall analysis aids in assessing the availability and distribution of water resources in various parts of the country. It helps in planning water storage, hydroelectric power generation, and efficient water allocation for domestic, industrial, and agricultural purposes.</li>
      <li><i class="ri-check-double-line"></i> Drought and Flood Management: By analyzing rainfall data, authorities can identify regions prone to drought or excessive rainfall, facilitating early warning systems and disaster preparedness. This information can aid in implementing appropriate measures to mitigate the impact of droughts and floods, such as water conservation strategies, crop diversification, and infrastructure planning.</li>
      <li><i class="ri-check-double-line"></i> Climate Change Studies: Rainfall analysis contributes to studying long-term climatic trends and understanding the impacts of climate change. It helps in identifying shifts in rainfall patterns, intensity, and seasonality, providing valuable insights for climate modeling and adaptation strategies.</li>
    </ul>
  <p>

```

Data Accuracy and Availability: Rainfall data collection and accuracy can vary across different regions in India. Some areas may have limited or unreliable data, hindering comprehensive analysis and accurate decision-making.

Spatial and Temporal Resolution: The spatial and temporal resolution of rainfall data can impact the accuracy of analysis. Fine-grained analysis requires higher-resolution data, which may not always be available uniformly across the country.

Lack of Integration with Other Factors: Isolating rainfall analysis without considering other factors like temperature, humidity, or land use can limit the understanding of the complex interactions influencing agriculture, hydrology, and ecosystems.

</p>

</div>

<div class="col-lg-6 order-1 order-lg-2 text-center">

</div>

</div>

</div>

</div>

</div>

</section><!-- End Features Section -->

<!-- ===== Cta Section ===== -->

<section id="cta" class="cta">

<div class="container">

<div class="row" data-aos="zoom-out">

<div class="col-lg-9 text-center text-lg-start">

<h3>Call To Action</h3>

<p>A comprehensive and in-depth study is needed to better understand the long-term rainfall trends, patterns, and changes in India from 1905 to 2015. This is the call to action for rainfall analysis in India. Regional impacts, climate variability, and monsoon dynamics should all be included in this research. In order to lessen the effects of rainfall variability on India's economy and society, we can develop effective water resource management strategies, implement targeted agricultural practises, and improve our ability to predict and adapt to future climate changes.</p>

</div>


```

<div class="col-lg-3 cta-btn-container text-center">
  <a class="cta-btn align-middle" href="#contact">Call To Action</a>
</div>
</div>
</div>
</section><!-- End Cta Section -->
<!-- ===== Services Section ===== -->
<section id="services" class="services">
  <div class="container">
    <div class="section-title" data-aos="zoom-out">
      <h2>Seasons</h2>
      <p></p>
    </div>
    <div class="row">
      <div class="col-lg-4 col-md-6">
        <div class="icon-box" data-aos="zoom-in-left">
          <div class="icon"><i class="bi bi-briefcase" style="color: #ff689b;"></i></div>
          <h4 class="title"><a href="">Spring</a></h4>
          <p class="description">Spring is a season of rejuvenation and renewal.It marks the
transition from winter to summer.During spring, temperatures gradually rise, and nature comes
alive</p>
        </div>
      </div>
      <div class="col-lg-4 col-md-6 mt-5 mt-md-0">
        <div class="icon-box" data-aos="zoom-in-left" data-aos-delay="100">
          <div class="icon"><i class="bi bi-book" style="color: #e9bf06;"></i></div>
          <h4 class="title"><a href="">Summer</a></h4>
          <p class="description">Summer is a season of warmth and sunshine.It brings longer
days and opportunities for outdoor activities.People often enjoy vacations, beaches, and
relaxation during this time.</p>
        </div>
      </div>
      <div class="col-lg-4 col-md-6 mt-5 mt-lg-0 ">
        <div class="icon-box" data-aos="zoom-in-left" data-aos-delay="200">
          <div class="icon"><i class="bi bi-card-checklist" style="color: #3fcdc7;"></i></div>

```

```

    <h4 class="title"><a href="">Monsoon</a></h4>
    <p class="description">Monsoon season is characterized by heavy rainfall.It usually
occurs in tropical and subtropical regions.The rains provide relief from the heat and help support
agricultural activities.</p>
    </div>
</div>
<div class="col-lg-4 col-md-6 mt-5">
    <div class="icon-box" data-aos="zoom-in-left" data-aos-delay="300">
        <div class="icon"><i class="bi bi-binoculars" style="color:#41cf2e;"></i></div>
        <h4 class="title"><a href="">Autumn</a></h4>
        <p class="description">Autumn, also known as fall, is a season of colorful
transformation.Leaves change their colors, temperatures cool down, and nature prepares for the
arrival of winter.</p>
    </div>
</div>

<div class="col-lg-4 col-md-6 mt-5">
    <div class="icon-box" data-aos="zoom-in-left" data-aos-delay="400">
        <div class="icon"><i class="bi bi-globe" style="color: #d6ff22;"></i></div>
        <h4 class="title"><a href="">Pre-winter</a></h4>
        <p class="description">Pre-winter is the transitional season between autumn and
winter.It features cooler temperatures and hints of winter's arrival, with foliage changes and
occasional chilly weather.</p>
    </div>
</div>

<div class="col-lg-4 col-md-6 mt-5">
    <div class="icon-box" data-aos="zoom-in-left" data-aos-delay="500">
        <div class="icon"><i class="bi bi-clock" style="color: #4680ff;"></i></div>
        <h4 class="title"><a href="">Winter</a></h4>
        <p class="description">Winter is the coldest season of the year.It is often associated
with snow, cold temperatures, and cozy indoor activities.</p>
    </div>
</div>
</div>
</section><!-- End Services Section -->
<!-- ===== Portfolio Section ===== -->

```

```
<section id="portfolio" class="portfolio">
  <div class="container">

    <div class="section-title" data-aos="zoom-out">
      <h2>Story</h2>
      <p>What we've done</p>
    </div>

    <div class='tableauPlaceholder' id='viz1688020841851' style='position: relative'>
      <noscript>
        <a href='#'><img alt='Rainfall Analysis Story In India '
src='https://public.tableau.com/static/images/Pr/Project-
Story_16880207712050/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='path' value='views/Project-
Story_16880207712050/Story1?language=en-GB&embed=true&publish=yes'
/>
        <param name='toolbar' value='yes' />
        <param name='static_image'
value='https://public.tableau.com/static/images/Pr/Project-
Story_16880207712050/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-GB' />
        <param name='filter' value='publish=yes' />
      </object>
    </div>
    <script type='text/javascript'>
      var divElement = document.getElementById('viz1688020841851');
```

```

var vizElement = divElement.getElementsByTagName('object')[0];

vizElement.style.width='100%';vizElement.style.height=(divElement.offsetWidth*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 Portfolio Section -->
<!-- ===== F.A.Q Section ===== -->
<section id="faq" class="faq">
  <div class="container">
    <div class="section-title" data-aos="zoom-out">
      <h2>F.A.Q</h2>
      <p>Frequently Asked Questions</p>
    </div>
    <ul class="faq-list">
      <li>
        <div data-bs-toggle="collapse" class="collapsed question" href="#faq1">What is the
overall trend of rainfall in India from 1901 to 2015?
        <i class="bi bi-chevron-down icon-show"></i><i class="bi bi-chevron-up icon-
close"></i></div>
        <div id="faq1" class="collapse" data-bs-parent=".faq-list">
          <p>
            The overall trend of rainfall in India from 1901 to 2015 shows considerable variability.
            There are periods of above-average and below-average rainfall, indicating a fluctuating
pattern rather than a consistent trend.
          </p>
        </div>
      </li>
      <li>
        <div data-bs-toggle="collapse" href="#faq2" class="collapsed question">Are there any
significant changes or variations in the rainfall patterns over this period?

```

```

<i class="bi bi-chevron-down icon-show"></i><i class="bi bi-chevron-up icon-
close"></i></div>
<div id="faq2" class="collapse" data-bs-parent=".faq-list">
  <p>
    Yes, there are significant changes and variations in rainfall patterns over this period.
    Some regions experienced consistent increases or decreases in rainfall, while others
    showed more irregular patterns with alternating wet and dry years.
  </p>
</div>
</li>
<li>
  <div data-bs-toggle="collapse" href="#faq3" class="collapsed question">How does the
  rainfall analysis from 1901 to 2015 compare to recent years or decades?
  <i class="bi bi-chevron-down icon-show"></i><i class="bi bi-chevron-up icon-
  close"></i></div>
  <div id="faq3" class="collapse" data-bs-parent=".faq-list">
    <p>
      To provide a comparison with recent years or decades, I would need more up-to-date
      data beyond my knowledge cutoff in September 2021.
      However, it is important to note that climate change and global warming can impact
      rainfall patterns, and recent years have witnessed.
    </p>
  </div>
</li>
<li>
  <div data-bs-toggle="collapse" href="#faq4" class="collapsed question">What are the
  seasonal rainfall patterns in different parts of India during this period?
  <i class="bi bi-chevron-down icon-show"></i><i class="bi bi-chevron-up icon-
  close"></i></div>
  <div id="faq4" class="collapse" data-bs-parent=".faq-list">
    <p>
      Seasonal rainfall patterns in India vary across different regions.
      Generally, India experiences a distinct summer monsoon season (June-September)
      characterized by widespread rainfall, especially in the central and northern parts.
    </p>
  </div>
</li>

```

However, regions like Tamil Nadu and northeastern states receive significant rainfall during the winter monsoon season (October-December) as well.

</p>

</div>

<div data-bs-toggle="collapse" href="#faq5" class="collapsed question">Can the rainfall data be used to predict future climate patterns in India?

<i class="bi bi-chevron-down icon-show"></i><i class="bi bi-chevron-up icon-close"></i></div>

<div id="faq5" class="collapse" data-bs-parent=".faq-list">

<p>

Rainfall data, along with other climatic variables and models, can be used to develop projections and predictions of future climate patterns in India.

However, the accuracy of these predictions depends on various factors and uncertainties associated with climate modeling.

</p>

</div>

<div data-bs-toggle="collapse" href="#faq6" class="collapsed question">How reliable is the rainfall data collected and recorded from 1901 to 2015?

<i class="bi bi-chevron-down icon-show"></i><i class="bi bi-chevron-up icon-close"></i></div>

<div id="faq6" class="collapse" data-bs-parent=".faq-list">

<p>

The reliability of rainfall data collected and recorded from 1901 to 2015 depends on the quality of data collection methods, observation stations, and data preservation practices.

Efforts are made to ensure data accuracy, but there can be limitations and uncertainties associated with historical records.

</p>

</div>


```
</div>
</section><!-- End F.A.Q Section -->
<!-- ===== Team Section ===== -->
<section id="team" class="team">
  <div class="container">
    <div class="section-title" data-aos="zoom-out">
      <h2>Team Number 237</h2>
      <p>Our Hardworking Team</p>
    </div>
    <div class="row">
      <div class="col-lg-3 col-md-6 d-flex align-items-stretch">
        <div class="member" data-aos="fade-up">
          <div class="member-img">
            <p class="font-effect-emboss" style="font-family:'Times New
Roman';color:#808080"> Ankitha Reddy is a motivated student who is pursuing a Bachelor of
Technology (B. Tech) in Computer Science and Engineering (CSE) at the Vellore Institute of
Technology (VIT).
          </p>
          <div class="social">
            <a href=""><i class="bi bi-twitter"></i></a>
            <a href=""><i class="bi bi-facebook"></i></a>
            <a href=""><i class="bi bi-instagram"></i></a>
            <a href=""><i class="bi bi-linkedin"></i></a>
          </div>
        </div>
        <div class="member-info">
          <h4>V ANKITHA</h4>
          <span>Team Member</span>
        </div>
      </div>
      <div class="col-lg-3 col-md-6 d-flex align-items-stretch">
        <div class="member" data-aos="fade-up" data-aos-delay="100">
          <div class="member-img">
```

```
<p class="font-effect-emboss" style="font-family:'Times New Roman';color:#808080">Jitendra is a motivated student who is pursuing a Bachelor of Technology (B. Tech) in Computer Science and Engineering (CSE) at the Vellore Institute of Technology (VIT). </p>
```

```
<div class="social">
```

```
<a href=""><i class="bi bi-twitter"></i></a>
```

```
<a href=""><i class="bi bi-facebook"></i></a>
```

```
<a href=""><i class="bi bi-instagram"></i></a>
```

```
<a href=""><i class="bi bi-linkedin"></i></a>
```

```
</div>
```

```
</div>
```

```
<div class="member-info">
```

```
<h4>U JITENDRA</h4>
```

```
<span>Team Member</span>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<!--, -->
```

```
<div class="col-lg-3 col-md-6 d-flex align-items-stretch">
```

```
<div class="member" data-aos="fade-up" data-aos-delay="200">
```

```
<div class="member-img">
```

```
<p class="font-effect-emboss" style="font-family:'Times New Roman';color:#808080">Vignesh is a motivated student who is pursuing a Bachelor of Technology (B. Tech) in Computer Science and Engineering (CSE) at the Vellore Institute of Technology (VIT). </p>
```

```
<div class="social">
```

```
<a href=""><i class="bi bi-twitter"></i></a>
```

```
<a href=""><i class="bi bi-facebook"></i></a>
```

```
<a href=""><i class="bi bi-instagram"></i></a>
```

```
<a href=""><i class="bi bi-linkedin"></i></a>
```

```
</div>
```

```
</div>
```

```
<div class="member-info">
```

```
<h4>SR VIGNESH</h4>
```



```
<span>Team Member</span>
</div>
</div>
</div>
<div class="col-lg-3 col-md-6 d-flex align-items-stretch">
  <div class="member" data-aos="fade-up" data-aos-delay="300">
    <div class="member-img">
      <p class="font-effect-emboss" style="font-family:'Times New
Roman';color:#808080">Prajith is a motivated student who is pursuing a Bachelor of
Technology (B. Tech) in Computer Science and Engineering (CSE) at the Vellore Institute of
Technology (VIT).</p>
      <div class="social">
        <a href=""><i class="bi bi-twitter"></i></a>
        <a href=""><i class="bi bi-facebook"></i></a>
        <a href=""><i class="bi bi-instagram"></i></a>
        <a href=""><i class="bi bi-linkedin"></i></a>
      </div>
    </div>
    <div class="member-info">
      <h4>DLVP PRAJITH</h4>
      <span>Team Member</span>
    </div>
  </div>
</div>
</div>
</div>
</div>
</section>
<!-- End Team Section -->
<!-- ===== Contact Section ===== -->
<section id="contact" class="contact">
  <div class="container">
    <div class="section-title" data-aos="zoom-out">
      <h2>Contact</h2>
      <p>Contact Us</p>
```

```
</div>
<div class="row mt-5">
  <div class="col-lg-4" data-aos="fade-right">
    <div class="info">
      <div class="address">
        <i class="bi bi-geo-alt"></i>
        <h4>Location:</h4>
        <p>Vellore Institute Of Technology,Vellore-632014,TN,India</p>
      </div>
      <div class="email">
        <i class="bi bi-envelope"></i>
        <h4>Email:</h4>
        <p>vanchaankitha.reddy2020@vitstudent.ac.in<br>unna.jitendra2020@vitstudent.ac.in<br>vignesh.sr2020@vitstudent.ac.in<br>prajith.dlvp2020@vitstudent.ac.in</p>
      </div>
      <div class="phone">
        <i class="bi bi-phone"></i>
        <h4>Call:</h4>
        <p>+91 8096396303<br>+91 9494564107<br>+91 9177314713</p>
      </div>
    </div>
  </div>
  <div class="col-lg-8 mt-5 mt-lg-0" data-aos="fade-left">
    <form action="forms/contact.php" method="post" role="form" class="php-email-form">
      <div class="row">
        <div class="col-md-6 form-group">
          <input type="text" name="name" class="form-control" id="name"
placeholder="Your Name" required>
        </div>
        <div class="col-md-6 form-group mt-3 mt-md-0">
          <input type="email" class="form-control" name="email" id="email"
placeholder="Your Email" required>
        </div>
      </div>
    </form>
  </div>
</div>
```

```

    </div>
    <div class="form-group mt-3">
      <input type="text" class="form-control" name="subject" id="subject"
placeholder="Subject" required>
    </div>
    <div class="form-group mt-3">
      <textarea class="form-control" name="message" rows="5" placeholder="Message"
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>
</div>
</section><!-- End Contact Section -->
</main><!-- End #main -->
<!-- ===== Footer ===== -->
<footer id="footer">
  <div class="container">
    <h3 class="anima">TEAM-237</h3>
    <p>The analysis of rainfall in India emphasizes the importance of understanding and
adapting to the country's diverse and changing precipitation patterns for sustainable
development.</p>
    <div class="social-links">
      <a href="https://twitter.com/vit_univ" class="twitter"><i class="bx bxl-twitter"></i></a>
      <a href="https://www.facebook.com/VITuniversity/" class="facebook"><i class="bx bxl-
facebook"></i></a>
      <a href="https://www.instagram.com/vellore_vit/" class="instagram"><i class="bx bxl-
instagram"></i></a>

```

```
<a href="https://www.youtube.com/c/VITUniversityVellore" class="google-plus"><i
class="bx bxl-skype"></i></a>
<a href="https://www.linkedin.com/school/vellore-institute-of-technology/"
class="linkedin"><i class="bx bxl-linkedin"></i></a>
</div>
<div class="copyright">
  &copy; Copyright <strong><span>TEAM-237</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/selecao-bootstrap-template/ -->
  Designed by <a href="#team">TEAM-237</a>
</div>
</div>
</footer><!-- End Footer -->
<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="static/assets/vendor/aos/aos.js"></script>
<script src="static/assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
<script src="static/assets/vendor/glightbox/js/glightbox.min.js"></script>
<script src="static/assets/vendor/isotope-layout/isotope.pkgd.min.js"></script>
<script src="static/assets/vendor/swiper/swiper-bundle.min.js"></script>
<script src="static/assets/vendor/php-email-form/validate.js"></script>
<!-- Template Main JS File -->
<script src="static/assets/js/main.js"></script>
</body>
</html>
```