SMARTINTERNZ INTERNSHIP PROGRAM

Track-DATA ANALYTICS WITH TABLEAU

Project Title-UNEARTHING THE ENVIRONMENTAL IMPACTS OF HUMAN ACTIVITY: A GLOBAL CO2 EMISSION ANALYSIS.

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1 INTRODUCTION

1.1 Overview

The environmental impact of human activity, particularly in the form of greenhouse gas emissions, has become a critical global concern. Among the various greenhouse gases, carbon dioxide (CO2) is the primary contributor to climate change. It is released into the atmosphere through numerous human activities, including burning fossil fuels, deforestation, industrial processes, and agricultural practices. Understanding and analysing global CO2 emissions are crucial steps in assessing the magnitude of the environmental challenges we face. The topic "Unearthing the Environmental Impacts of Human Activity: A Global CO2 Emission Analysis" aims to delve into the extent of CO2 emissions worldwide and their implications for the environment. The analysis encompasses multiple dimensions, including the sources of emissions, geographical distribution, temporal trends, and the associated environmental consequences.

Sources of CO2 Emissions:

The study examines the major sources of CO2 emissions, focusing on sectors such as energy production, transportation, industry, oil, coal, cement and environment changes. It explores the processes and activities within each sector that contribute to CO2 emissions and quantifies their relative importance.

Geographical Distribution:

The analysis takes a global perspective to evaluate the distribution of CO2 emissions across countries and regions. It identifies the top contributors to global CO2 emissions, highlighting both developed and developing nations. By examining regional disparities, the study aims to shed light on the disproportionate impact of emissions on different parts of the world.

Temporal Trends:

The research investigates the historical trends of CO2 emissions over time. It analyzes changes in emission levels, identifies key periods of growth or decline, and examines the driving factors behind these trends. Additionally, the study explores the influence of various socio-economic factors and policy measures on emissions.

By providing a comprehensive overview of global CO2 emissions and their environmental impacts, this analysis aims to enhance our understanding of the magnitude of human-induced climate change. The findings can inform policymakers, researchers, and the general public about the urgency of adopting sustainable practices, mitigating emissions, and developing effective climate change mitigation strategies.

1.2 Purpose

The outcome of these visualisations can be used in various sectors:

Assessing the Magnitude of the Problem: By understanding the scale of these emissions, we can comprehend the extent to which human activity contributes to climate change and its associated environmental impacts.

Identifying Key Sources and Sectors: The analysis helps identify the major sources of CO2 emissions, such as coal, transportation, industry, cement, and other fossil fuels. By pinpointing these sectors, it becomes possible to target specific areas for mitigation efforts and policy interventions to reduce emissions effectively.

Understanding Geographical Disparities: Examining the geographical distribution of CO2 emissions allows us to identify countries and regions with the highest emission levels. This understanding is essential for international cooperation, policy formulation, and equitable burden-sharing in addressing climate change. It also helps highlight the potential impacts on vulnerable regions and populations.

Tracking Temporal Trends: Analyzing historical trends of CO2 emissions provides insights into how human activity has evolved over time and its impact on climate change. It helps identify periods of significant growth or decline in emissions, assess the effectiveness of past mitigation measures, and project future emission scenarios.

Raising Awareness and Urgency: By disseminating the findings of the analysis, it increases public awareness about the environmental impacts of human activity and the urgent need for action. It helps educate individuals, communities, and organizations about the consequences of CO2 emissions, fostering a sense of responsibility and encouraging sustainable behaviors and lifestyle changes.

2 LITERATURE SURVEY

2.1 Existing problem

The project aims to explore and understand how human activities are affecting the environment, focusing specifically on the emission of carbon dioxide (CO2) on a global scale. The project seeks to analyze data to uncover patterns, trends, and connections, providing insights into the extent of human-driven CO2 emissions and their impact on the environment.

The project analyses the primary sources of CO2 emissions worldwide, the change in CO2 emissions over time, the current emission levels, significant variations in CO2 emissions between different regions, and tries to find the respective factors contributing to it.

The project aims to provide valuable insights into the global landscape of CO2 emissions. This information can assist environmental organizations, and researchers in making informed decisions and formulating effective strategies to address climate change and reduce human impacts on the environment.

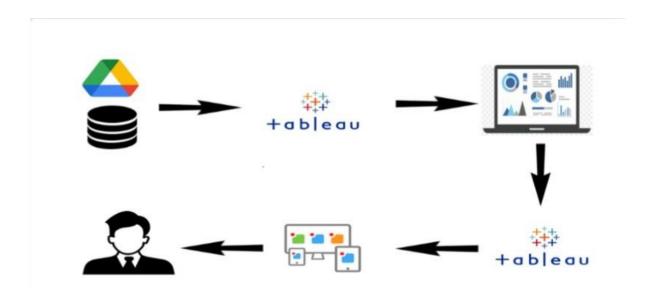
2.2 Proposed solution

By using Data Analytics techniques, the long-term trends and patterns in CO2 emissions, such as increasing or decreasing emission rates over time, causes and variations in CO2 emissions between different regions help to visualise and understand the historical trajectory of emissions and provide a basis for future projections. By examining geographical variations in emission levels and growth rates, we can identify regions with high emissions and those with relatively lower emissions.

This analysis enables policymakers to allocate resources and implement region-specific mitigation strategies where they are most needed. Strict control measures to reduce CO2 emissions could also be made so that the emission rates are reduced. By analysing the correlations and relationships between CO2 emissions, insights could be made to find direct and indirect effects of CO2 emissions on the environment, helping to assess the severity and urgency of the problem.

3 THEORETICAL ANALYSIS

3.1 Block diagram



3.2 Hardware / Software designing

Hardware Requirements:

Microsoft Windows 8/8.1, Windows 10 (x64)

2 GB memory

1.5 GB minimum free disk space

CPUs must support SSE4.2 and POPCNT instruction sets

Software Requirements:

Tableau Desktop for visualising data.

MySQL Workbench 8.0 for data cleaning and integrating the database with Tableau.

Tableau Public Account to publish the Dashboards and the Story.

VSCode for web integration using html,css,js and flask.

4 EXPERIMENTAL INVESTIGATIONS

Dataset:

- We found Continents, International factors, World are in Country Column, thereby a preprocessing or filtration during visualizing is needed to avoid misleading content.
- We can see that data has missing values / cells, thereby no need to do data imputation.

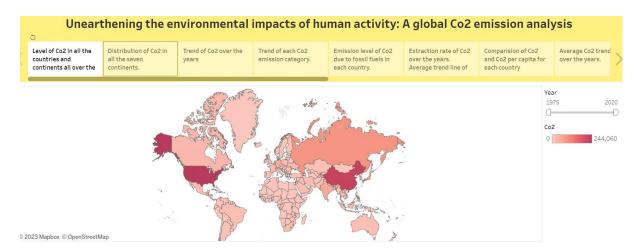
MySQL:

We loaded the dataset in MySQL by creating a schema and then connected it with Tableau with the required connections and credentials.

Tableau:

- Total World Emission

To get the Map in Tableau, keep the generated latitude and longitude in rows and columns respectively. Then place the Sum of Co2 Column into Color for better visualization and color variation. Further we can have a range based year wise filtration over the data.



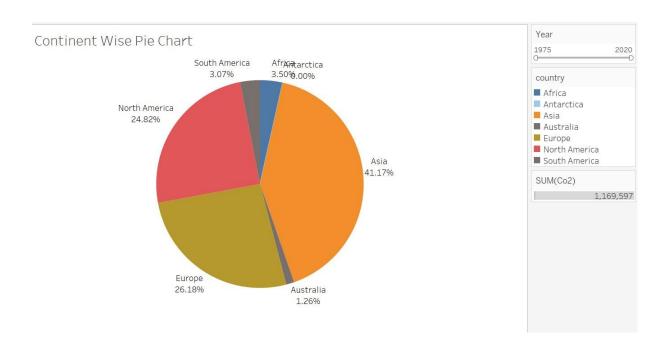
- Total CO2 emission overtime

To get the Visualization in Tableau, keep the year in column and Avg Co2 in Rows. Then place the Avg of Co2 Column into Color for better visualization and color variation. Further we can have a range based year wise filtration over the data.



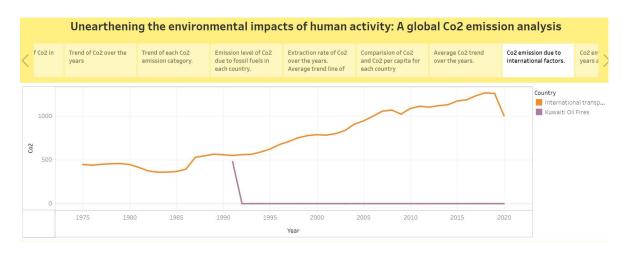
- Total emission by continents

To get the Visualization in Tableau, keep the Country in column and Sum of Co2 in Rows. Then filter only the 7 continents from the country field. Further we can have a range based year wise filtration over the data.



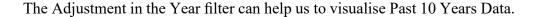
- CO2 emission by international factors

To get the Visualization in Tableau, keep the Country in column and Avg of Co2 in Rows. Then filter only the 2 international factors from the country field. Further we need to merge the axis for a clearcut direct comparison.



CO2 emission over past 10 years

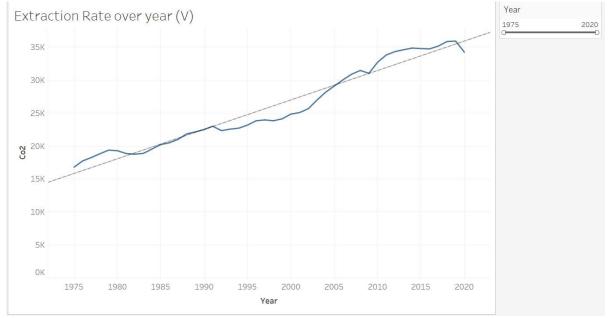
To get the Visualisation in Tableau, keep the year in column and Avg Co2 in Rows. Then place the Avg of Co2 Column into Color for better visualisation and colour variation. Further we can have a range based year wise filtration over the data.





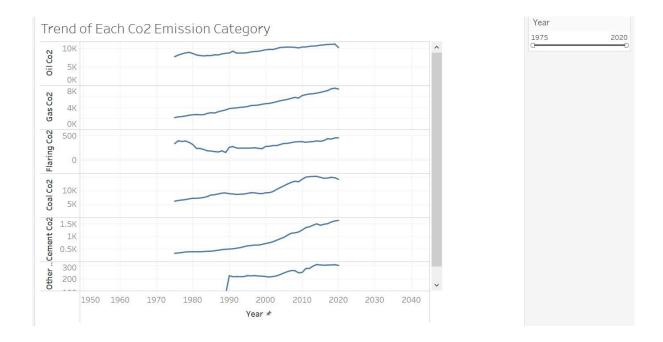
- Emission Rate Over Years

To get the Visualisation in Tableau, keep the year in column and Sum of Co2 in Rows. We can use the trendline in the analytics tab to get the rate of growth in y = mx + c format. Further we can have a range based year wise filtration over the data.



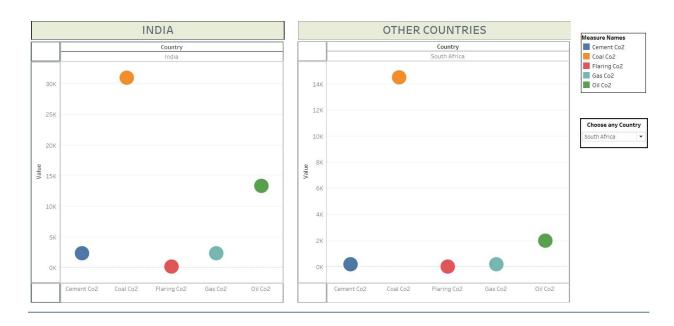
- Trend of Each Co2 Emission Category

To get the Visualisation in Tableau, keep the year in column and 6 Categories Co2 Emission in row. Further we can have a range based year wise filtration over the data.



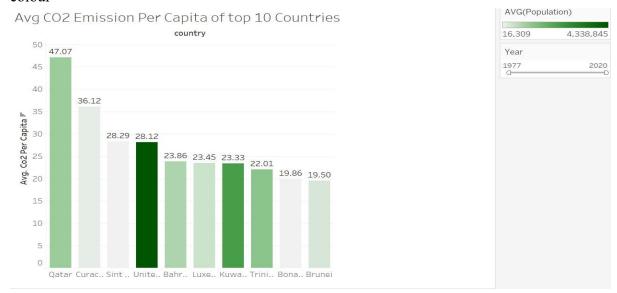
- Overall contribution by India in CO2 emission compared to other countries.

To get the Visualisation in Tableau, keep the country India Co2 Emission in one row and 5 Categories in column in one pane and another pane keep the X Country's Co2 Emission and 5 Categories into another column.. Further we can have a parameter to select the country on the next pane.



- Average CO2 per capita in top 10 countries

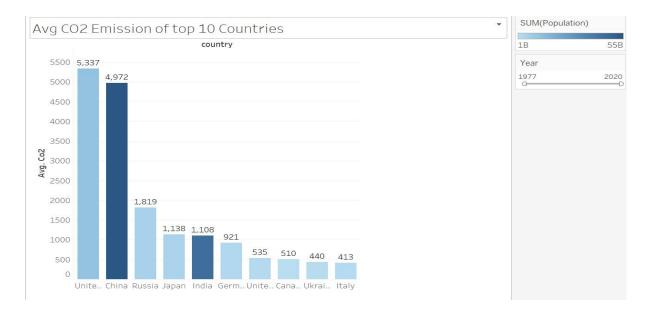
To get the Visualisation in Tableau, keep the country in column and Avg Co2 Per Capita in Rows. Then place the Avg of Population Column into Color for better visualisation and colour



variation. Further we can have a range based year wise filtration over the data.

- Average CO2 in top 10 countries

To get the Visualisation in Tableau, keep the country in column and Avg Co2 in Rows. Then place the Avg of Population Column into Color for better visualisation and colour variation. Further we can have a range based year wise filtration over the data.



DASHBOARD:

Creating a dashboard in Tableau allows you to combine multiple visualizations and present them in a cohesive and interactive manner. Here's a step-by-step guide on how to create a dashboard in Tableau:

Connect to Data:

- Start by connecting Tableau to your dataset "Global Fossil CO2 Emissions by Country 2002-2022" by selecting the appropriate data source.
- Follow the prompts to import or connect to the dataset and ensure that the necessary fields (e.g., country, year, CO2 emissions) are available in Tableau.

Create Visualizations:

- Build the individual visualizations that you want to include in your dashboard. You can use the drag-and-drop interface to select fields and choose chart types.
- Explore various visualization options such as bar charts, line graphs, maps, or scatter plots to represent the data effectively.
- Customize each visualization by adjusting formatting, adding labels, or applying filters as needed.

Arrange Visualizations:

- Once you have created the desired visualizations, go to the Dashboard tab in Tableau.
- Drag the visualisations from the left-hand pane onto the dashboard canvas. You can position them by dragging and resizing the elements.
- Use the layout containers and grids provided by Tableau to align and organize the visualizations.

Add Interactivity:

- Enhance your dashboard's interactivity by incorporating filters, parameters, and actions.
- Use filters to allow users to select specific countries, years, or other variables to dynamically update the visualizations.
- Include parameters to enable users to change certain aspects of the analysis, such as selecting different aggregation methods or thresholds.
- Create actions to link different visualizations, enabling users to interactively explore the data and navigate between related views.

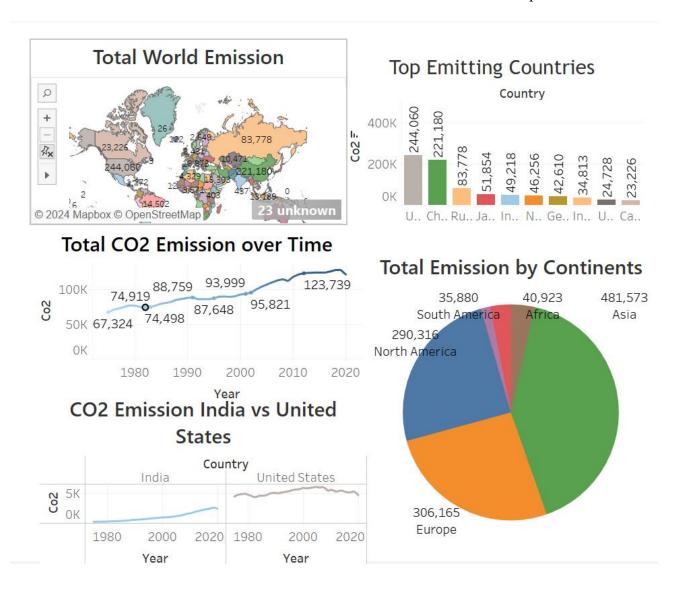
Customise and Format:

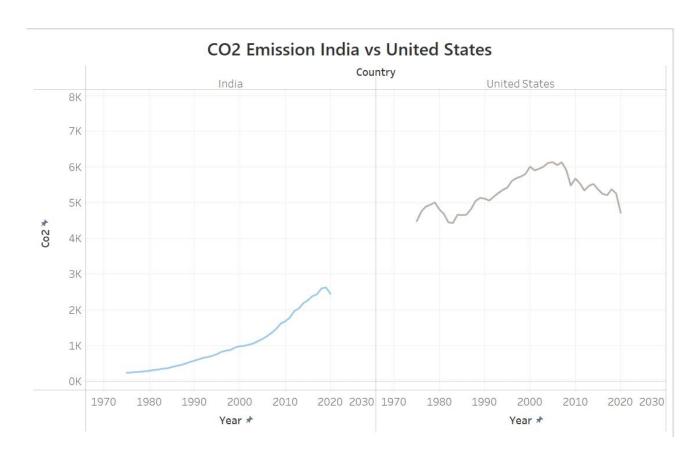
Refine the appearance of your dashboard by customizing the layout, colors, fonts, and other visual elements.

- Apply consistent formatting across all visualizations to maintain a cohesive look.
- Add titles, captions, and annotations to provide context and guide users through the dashboard.

Test and Publish:

- Test the functionality of your dashboard by interacting with it and ensuring that the visualizations update as expected.
- Optimize the performance by checking for any unnecessary calculations or heavy data queries.
- Once you are satisfied with your dashboard, publish it to Tableau Server or Tableau Public to share it with others or embed it in a website or presentation.



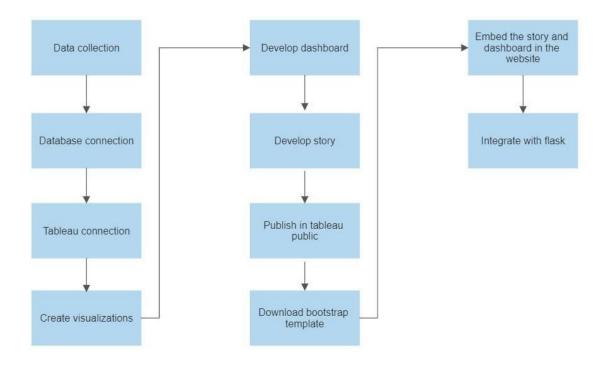


STORY:

Creating a story in Tableau allows you to present a sequence of visualizations and narratives that guide viewers through your data analysis and findings. Here's a step-by-step guide on how to create a story in Tableau.

- Connect to your dataset in Tableau.
- Create the visualizations that support your analysis and key messages.
- Arrange the visualizations in a logical sequence on the dashboard canvas.
- Add captions, titles, and annotations to provide context and insights.
- Switch to the Story tab in Tableau.
- Drag the visualizations from the dashboard onto the story canvas in the desired order.
- Insert text boxes between visualizations to explain and guide the viewer.
- Customize the layout, colors, and formatting to enhance visual appeal and consistency.
- Preview and refine the story for clarity and coherence.
- Present and share the story within Tableau or export it as a PDF or image file.

5 FLOWCHART



6.RESULT

Tableau Public -

Story:

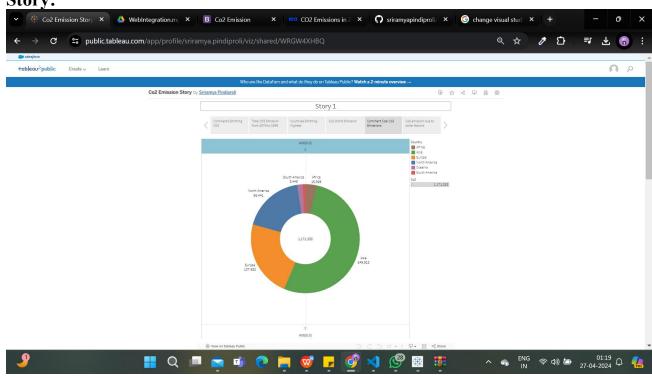
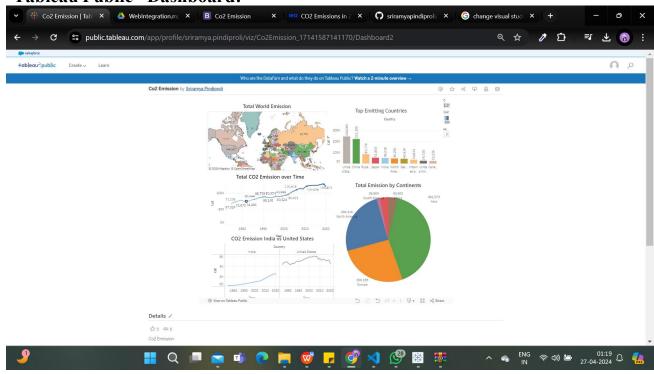
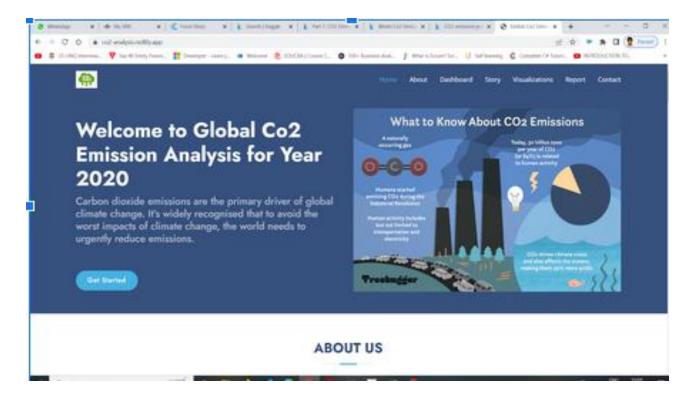
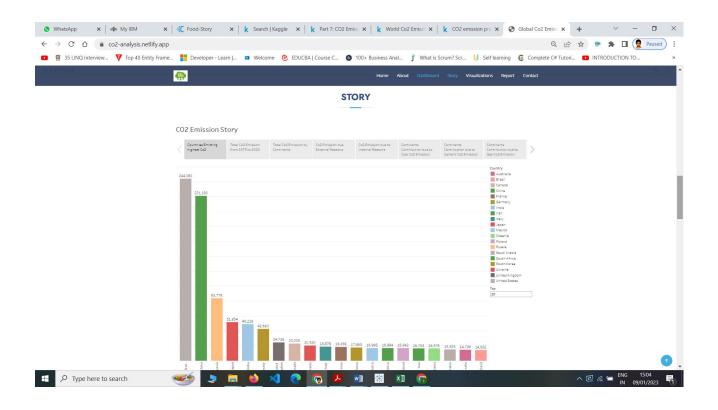


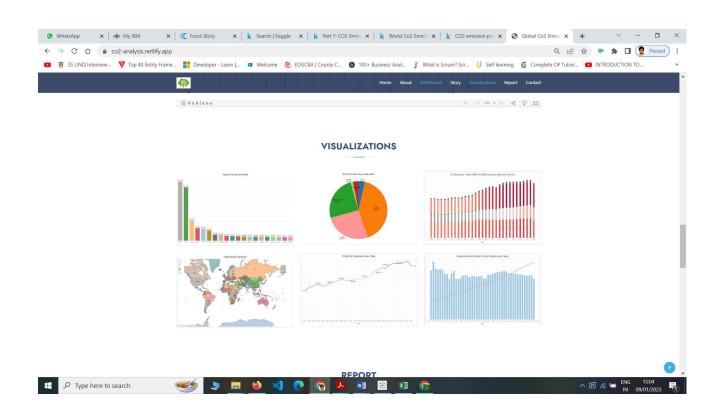
Tableau Public - Dashboard:



Website







ADVANTAGES & DISADVANTAGES

Advantages:

The general public can better understand the severity of the issue and the need for individual and collective action.

It helps guide investment decisions towards sustainable solutions and supports the development and deployment of clean technologies. This can spur economic growth, create green jobs, and drive technological advancements in climate change mitigation. It supports the development of global agreements and initiatives aimed at reducing carbon dioxide emissions.

By addressing the highest-emitting areas, resources and efforts can be utilized more efficiently for maximum impact.

Disadvantages:

While CO2 emissions are an essential factor in climate change, they are not the only environmental impact of human activity. Other factors such as deforestation, water pollution, and bio diversity loss can also have significant effects on the environment. A CO2 emissions analysis may not provide a complete picture of the environmental impact of human activity.

A CO2 emissions analysis can provide valuable information about the amount of CO2 released into the atmosphere, but it may not provide context for why emissions are occurring or what actions can be taken to reduce them. Without this context, it may be challenging to develop effective solutions for reducing emission.

Determining the responsibility for emissions associated with imported or exported goods and services can be complex. Attribution challenges can lead to inaccuracies in allocating emissions and hinder the accurate assessment of emissions from specific sectors or regions.

Conducting CO2 analysis requires significant resources, including financial resources, technical expertise, and time. The collection, processing, and analysis of data can be costly and time-consuming. This can pose challenges, particularly for developing countries or organizations with limited resources, hindering their capacity to perform comprehensive CO2 analysis.

6 APPLICATIONS

Education: The assignment can be used as an educational tool to teach students about the impact of human activity on the environment, particularly with regards to CO2 emissions. The analysis can help students understand the extent of human activity that contributes to climate change and what measures can be taken to reduce emissions.

Public Awareness and Education: CO2 emission analysis findings can be utilized to raise public awareness about the environmental impacts of human activity and the need for emission reductions.

Environmental Impact Assessments: CO2 emission analysis can be integrated into environmental impact assessments for infrastructure projects, industrial developments, and other activities with potential environmental consequences Advocacy: The assignment can be used to create awareness among the general public about the impact of human activity on the environment. The analysis can be shared through various mediums, such as social media, to encourage individuals to take action to reduce their own carbon footprint and make more sustainable choices.

7 CONCLUSION

The Global Co2 emission analysis involves a wide analysis of Co2 emission. We have worked on worksheets where we gave charts and graphs regarding CO2 emission and made a dashboard and story using the following charts.

Total World Emission

CO2 emission overtime

Total emission by continents

CO2 emission by international factors

CO2 emission per capita

Avg CO2 emission of top 10 countries

Emission rate over the years

Trend of Each Co2 Emission Category

CO2 contribution by different fossil fuels

CO2 emission over past 10 years

Change in CO2 emission and CO2 emission in 2020

By using data analytics tools we have observed the major contributors and factors all over the world. CO2 emission over the past 10 years shows that China ranks first in CO2 emission followed by the United States and India ranks third in this emission.

The internal factors include coal CO2, gas CO2, cement CO2, flaring CO2 and other industry CO2. By compressing the major factors and contributors of CO2 emission, a way to solve the problem can reduce the emission by switching to clean energy, implementation of carbon capture and storage and planting more trees

FUTURE SCOPE

The future scope of a global CO2 emission analysis project lies in the continual refinement of methodologies, data collection, and modelling techniques, integration with other environmental impact indicators, technological advancements, global collaboration, and policy integration. These advancements can enhance our understanding of the environmental impacts of human activity and contribute to more effective and targeted mitigation efforts to address climate change. Carbon stories in soil and vegetation through pilot programs for climate friendly land use. Public transportation or carpooling can be encouraged. Usage of alternative sources of energy instead of fossil fuels. Reducing emission gives a sustainable society.

APPENDIX

Source Code

```
Index.html--
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta content="width=device-width, initial-scale=1.0" name="viewport">
  <title>Co2 Emission</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 -->
  k
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|Poppi
ns: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"</pre>
rel="stylesheet">
  <link href="assets/vendor/bootstrap-icons/bootstrap-icons.css"</pre>
rel="stylesheet">
  <link href="assets/vendor/boxicons/css/boxicons.min.css"</pre>
rel="stylesheet">
  <link href="assets/vendor/glightbox/css/glightbox.min.css"</pre>
rel="stylesheet">
  <link href="assets/vendor/remixicon/remixicon.css" rel="stylesheet">
  <link href="assets/vendor/swiper/swiper-bundle.min.css"</pre>
rel="stylesheet">
```

```
<!-- Template Main CSS File -->
  <link href="assets/css/style.css" rel="stylesheet">
  * Template Name: Arsha
  * Template URL: https://bootstrapmade.com/arsha-free-bootstrap-html-
template-corporate/
  * Updated: Mar 17 2024 with Bootstrap v5.3.3
 * 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">CO2
EMISSIONS</a></h1>
     <!-- Uncomment below if you prefer to use an image logo -->
     <!-- <a href="index.html" class="logo me-auto"><img
src="assets/img/logo.png" alt="" class="img-fluid"></a>-->
     <nav id="navbar" class="navbar">
       <l
         <a class="nav-link scrollto active"</li>
href="#hero">Home</a>
         <a class="nav-link scrollto" href="#about">About</a>
         <a class="nav-link scrollto"</li>
href="#services">Dashboard</a>
         <a class="nav-link scrollto"</li>
href="#portfolio">Story</a>
           </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"</pre>
pt-4 pt-lg-0 order-2 order-lg-1" data-aos="fade-up" data-aos-delay="200">
         <h1>Welcome to Global CO2 Emission Analysis for the year
2020</h1>
         <h2>co2 emissions are primary drivers of global climate
change</h2>
```

```
<div class="d-flex justify-content-center justify-content-lg-</pre>
start">
            <a href="#about" class="btn-get-started scrollto">Get
Started</a>
            <a href="https://www.youtube.com/watch?v=jDDapla0z7Q"</pre>
class="glightbox btn-watch-video"><i class="bi bi-play-</pre>
circle"></i><span>Watch Video</span></a>
          </div>
        </div>
        <div class="col-lg-6 order-1 order-lg-2 hero-img" data-aos="zoom-</pre>
in" data-aos-delay="200">
          <img src="assets/img/team/co2.jpeg" class="img-fluid animated"</pre>
alt="">
        </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>Unearthing the Environmental Impact of Human Activity:
            A Global CO2 Emission Analysis</h2>
        </div>
        <div class="row content">
          <div class="col-lg-6">
              Global warming is one of the biggest challenges currently
being faced by the human race, although
correlation is not causation, a likely cause of global warming is due to
increased atmospheric carbon
dioxide from human activities. CO2 Emission refers to the Carbon Dioxide
emitted throughout the
world. For this analysis we will be focusing on CO2 Emissions and its
effect on the world we live in as
well as some key factors and stats that may play a role in the emission
of CO2 globally. Fossil fuel
use is the primary source of CO2.
            <l
              <i class="ri-check-double-line"></i> The data throws
light onto how much fossil fuels are burnt, per year
                per nation, which amounts to an increase in CO2 every
year.
              <i class="ri-check-double-line"></i>This will help
researchers and
```

```
environment experts to predict global warming. So
countries should set a goal to decrease this
               amount yearly.
           </div>
         <div class="col-lg-6 pt-4 pt-lg-0">
             Analysing Global Co2 Emission across countries from 1975 to
2020. This dataset contains a
             record of Co2 Emission by each Country and Region of Earth,
here we are going to analyse and
             visualise Country wise, Region wise and Overall Co2
Emission on Earth.
           <a href="https://www.iea.org/reports/co2-emissions-in-2022"</pre>
class="btn-learn-more">Learn More</a>
         </div>
       </div>
      </div>
    </section><!-- End About Us Section -->
    <!-- ===== Services Section ====== -->
    <section id="Services" class="services section-bg">
      <div class="container" data-aos="fade-up">
        <div class="section-title">
         <h2>Dashboard</h2>
         Here is the dashboard for the CO2 Emission Analysis
         <div class='tableauPlaceholder' id='viz1714159452657'</pre>
style='position: relative'><noscript><a href='#'><img alt='Dashboard 2 '</pre>
src='https://public.tableau.com/static/images/Co/
Co2Emission 17141587141170/ Dashboard2/ 1 rss.png' style='border:
none' /></a></noscript><object</pre>
class='tableauViz' style='display:none;'><param name='host_url'</pre>
name='embed code version' value='3' /> <param name='site root' value=''</pre>
/><param name='name' value='Co2Emission_17141587141170&#47;Dashboard2'</pre>
/><param name='tabs' value='no' /><param name='toolbar' value='yes'
/><param name='static image'</pre>
value='https://public.tableau.com/static/images/Co&#4
7;Co2Emission 17141587141170/Dashboard2/1.png' /> <param
name='animate transition' value='yes' /><param</pre>
name='display static image' value='yes' /><param name='display spinner'</pre>
value='yes' /><param name='display_overlay' value='yes' /><param</pre>
name='display_count' value='yes' /><param name='language' value='en-US'</pre>
/></object></div>
                                <script
type='text/javascript'>
                                          var divElement =
document.getElementById('viz1714159452657');
                                                               var
vizElement =
divElement.getElementsByTagName('object')[0];
                                                               if
```

```
( divElement.offsetWidth > 800 )
{ vizElement.style.width='1000px';vizElement.style.height='827px';} else
if ( divElement.offsetWidth > 500 )
{ vizElement.style.width='1000px'; vizElement.style.height='827px';} else
{ vizElement.style.width='100%'; vizElement.style.height='1627px';}
              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 Services Section -->
     <!-- ====== Portfolio Section ====== -->
    <section id="portfolio" class="portfolio">
      <div class="container" data-aos="fade-up">
        <div class="section-title">
          <h2>Story</h2>
          <div class='tableauPlaceholder' id='viz1714159973568'</pre>
style='position: relative'><noscript><a href='#'><img alt='Story 1 '</pre>
src='https://public.tableau.com/static/images/PZ/
PZG7TMS84/1 rss.png' style='border: none' /></a></noscript><object
class='tableauViz' style='display:none;'><param name='host url'</pre>
value='https%3A%2F%2Fpublic.tableau.com%2F' /> <param</pre>
name='embed_code_version' value='3' /> <param name='path'</pre>
value='shared/PZG7TMS84' />  ram name='toolbar' value='yes'
/><param name='static image'</pre>
value='https://public.tableau.com/static/images/PZ&#4
7;PZG7TMS84/1.png' /> <param name='animate_transition' value='yes'
/><param name='display static image' value='yes' /><param
name='display_spinner' value='yes' /><param name='display_overlay'</pre>
value='yes' /><param name='display_count' value='yes' /><param</pre>
name='language' value='en-US' /></object></div>
                                                               <script
type='text/javascript'>
                                           var divElement =
document.getElementById('viz1714159973568');
                                                                var
vizElement =
divElement.getElementsByTagName('object')[0];
                                                                 vizEleme
nt.style.width='1016px';vizElement.style.height='991px';
   var scriptElement =
document.createElement('script');
                                                     scriptElement.src =
'https://public.tableau.com/javascripts/api/viz v1.js';
  vizElement.parentNode.insertBefore(scriptElement,
vizElement);
                            </script>
        </div>
      </div>
    </section><!-- End Portfolio Section -->
```

```
<div id="preloader"></div>
  <a href="#" class="back-to-top d-flex align-items-center justify-</pre>
content-center"><i class="bi bi-arrow-up-short"></i></a>
  <!-- Vendor JS Files -->
  <script src="assets/vendor/aos/aos.js"></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-</pre>
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>
App.py
from flask import Flask, render_template
app = Flask(__name___)
@app.route("/")
def home():
    return render_template("index.html")
if __name__ == "__main__":
    app.run(debug=False,port=8090)
```