Dr. ZAKIR HUSSAIN COLLEGE, ILAYANGUDI

P.G DEPARTMENT OF MATHEMATICS

UNEARTHING THE ENVIRONMENTAL IMPACT OF HUMAN ACTIVITY:

A GLOBAL CO2 EMISSION ANALYSIS

SUBMITTED BY,

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1. INTRODUCTION

1.1 OVERVIEW

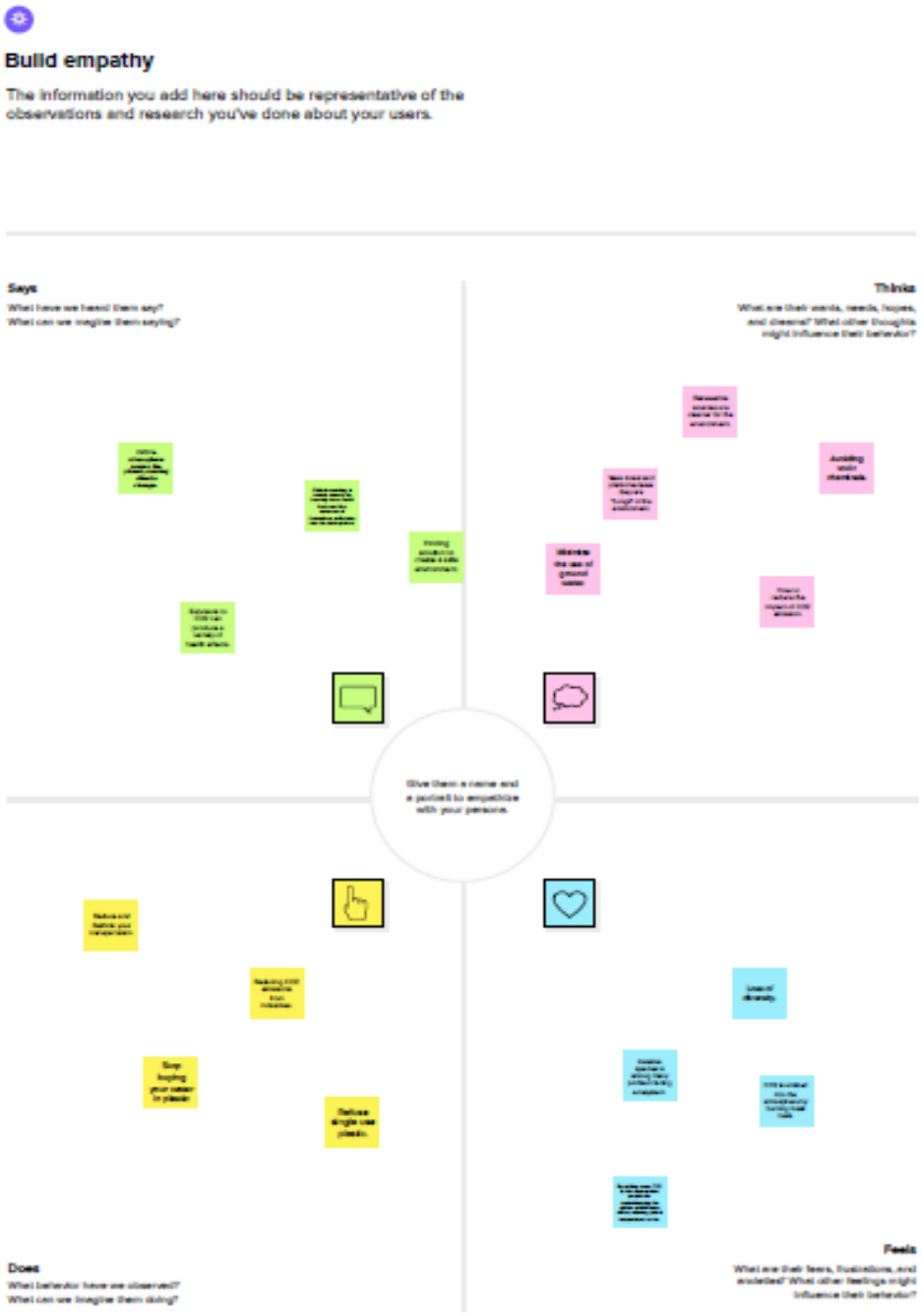
Global warming is one of the biggest challenges currently being faced by the human race, although correlation is not causation, a likely cause of global warming is due to increased atmospheric carbon dioxide from human activities. CO2 Emission refers to the Carbon Dioxide emitted throughout the world. 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. The data throws light onto how much fossil fuels are burnt, per year per nation, which amounts to an increase in CO2 every year.

1.2 PURPOSE

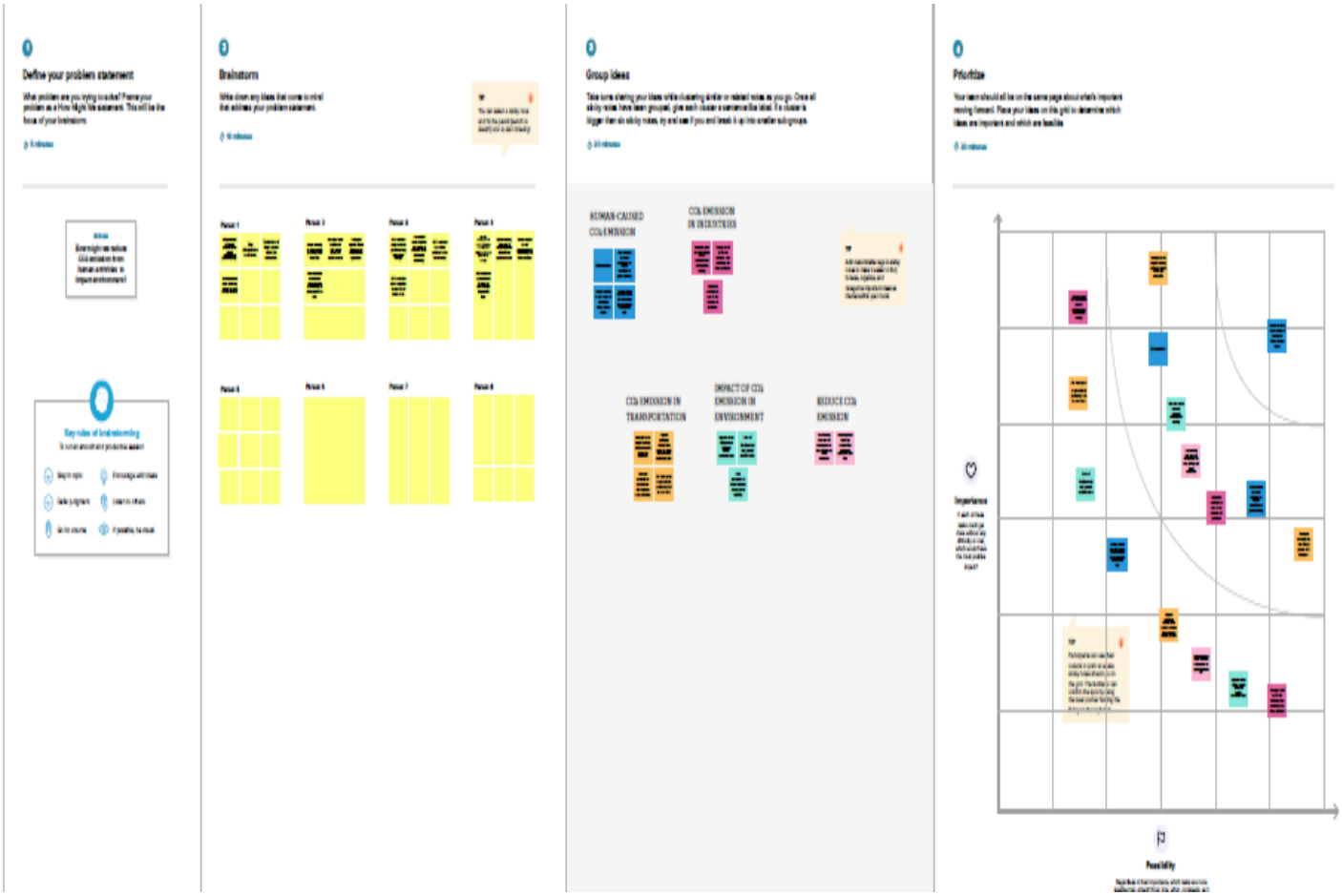
The carbon in CO2 can be used to produce fuels that are in use today, including methane, methanol, gasoline and aviation fuels. This will help researches and environment expert to predict global warming. So countries should set a goal to decrease this amount yearly. There are also a number of natural ways of gathering more CO2, from **planting more forests** to **sequestering more carbon in the soil**. Carbon dioxide emissions are the primary driver of global climate change. It's widely recognized that to avoid the worst impacts of climate change, the world needs to urgently reduce emissions. But, how this responsibility is shared between regions, countries, and individuals has been an endless point of contention in international discussions.

2. PROBLEM DEFINITION & DESIGN THINKING

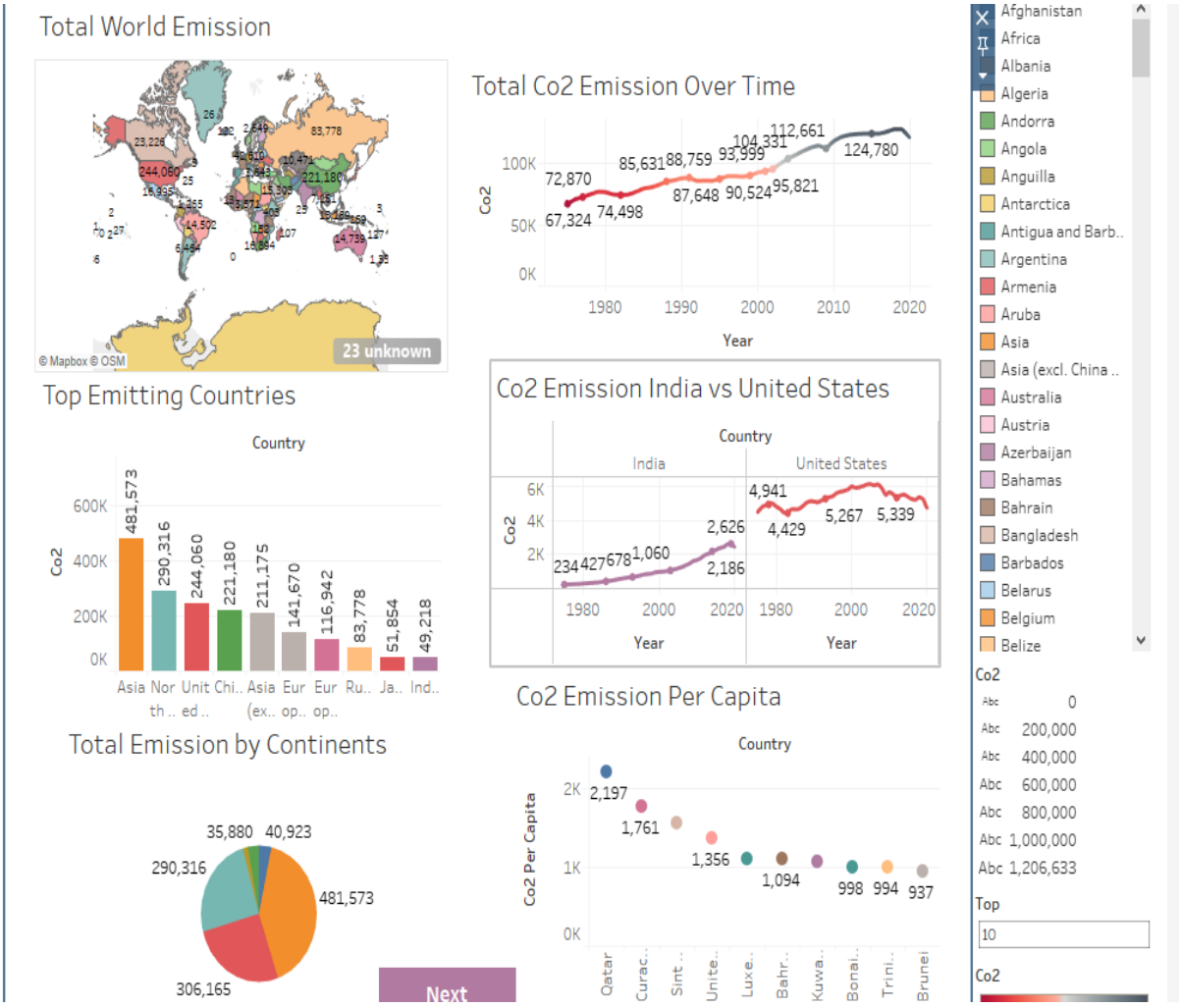
2.1 EMPATHY MAP



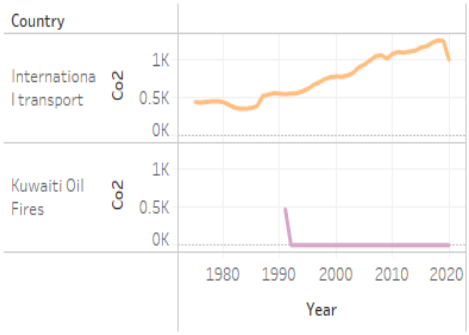
2.2 IDEATION & BRAINSTROMING MAP



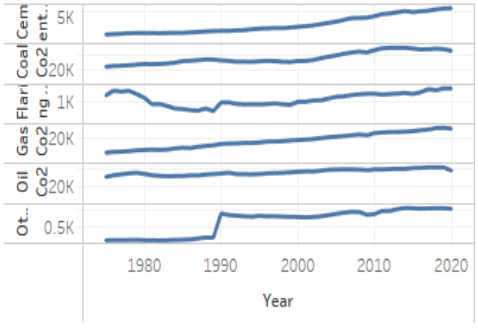
3. RESULT

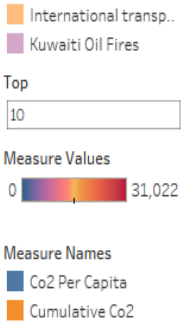

Total World Emission
© Mapbox © OSM
23 unknown
Total Co2 Emission Over Time
Co2
Year
Top Emitting Countries
Country
Co2
481,573
290,316
244,060
221,180
211,175
141,670
116,942
83,778
51,854
49,218
Asia (ex..
Eur op..
Eur op..
Ru..
Ja..
Ind..
Co2 Emission India vs United States
India
United States
Total Emission by Continents
35,880
40,923
290,316
481,573
306,165
Next
Co2 Emission Per Capita
Country
Co2 Per Capita
2,197
1,761
1,356
1,094
998
994
937
Qatar
Curac..
Sint ..
Unite..
Luxe..
Bahr..
Kuwa..
Bonai..
Trini..
Brunei
Afghanistan
Africa
Albania
Algeria
Andorra
Angola
Anguilla
Antarctica
Antigua and Barb..
Argentina
Armenia
Aruba
Asia
Asia (excl. China ..
Australia
Austria
Azerbaijan
Bahamas
Bahrain
Bangladesh
Barbados
Belarus
Belgium
Belize
Co2
0
200,000
400,000
600,000
800,000
1,000,000
1,206,633
Top
10
Co2

Co2 Emission by Other Factors

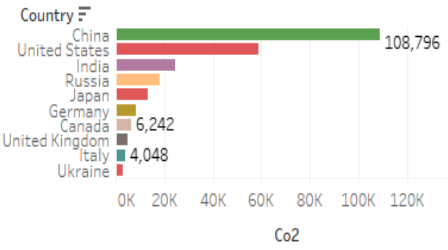


Emission Rate by Internal Factors

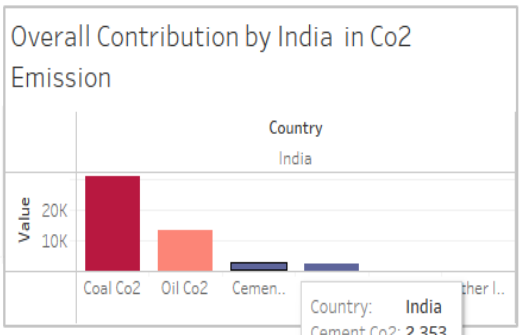




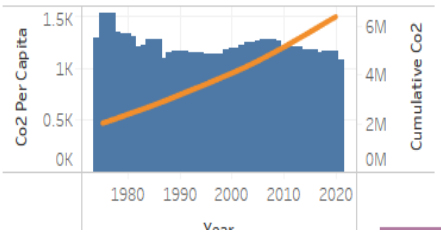
Co2 Emission Over Past 10 Years



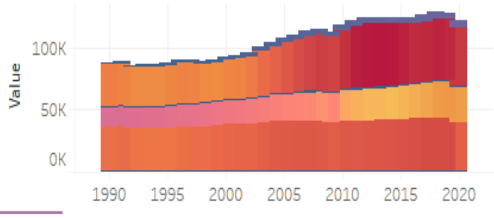
Overall Contribution by India in Co2 Emission



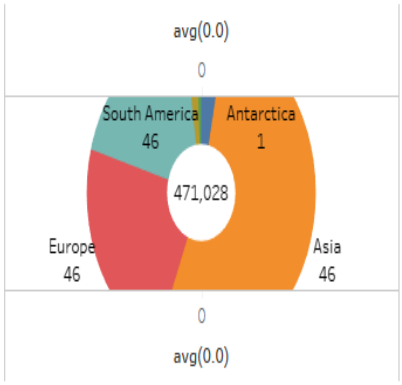
Cumulative Co2 and Co2 per capita Over Years



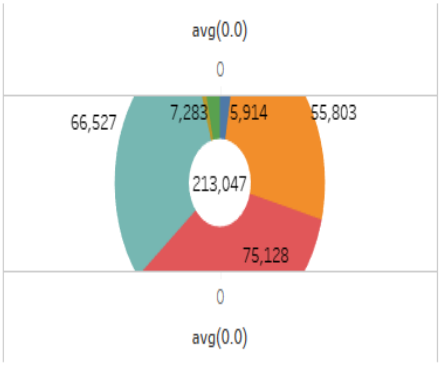
Co2 Emission from 1990 to 2020 based on Internal Factors



Donut Chart for Coal Co2



Donut Chart for Gas Co2 Emission



Country
- Africa
- Antarctica
- Asia
- Europe
- North America
- Oceania
- South America

Coal Co2
471,028

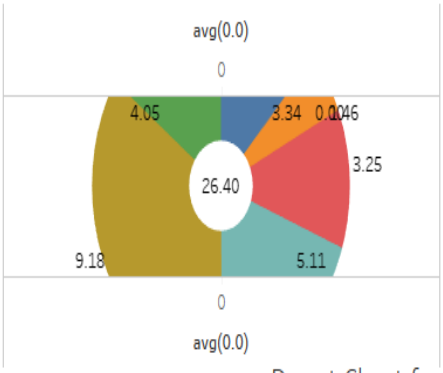
Gas Co2
213,047

Flaring Co2 Per Capita
26.40

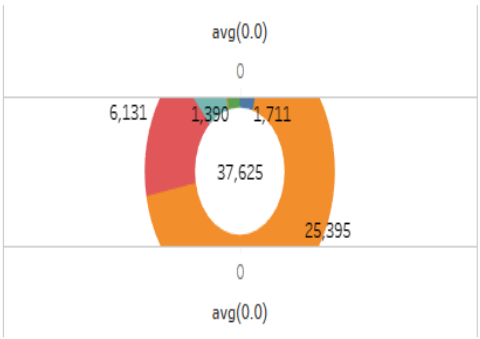
Cement Co2
37,625

Oil Co2
427,299

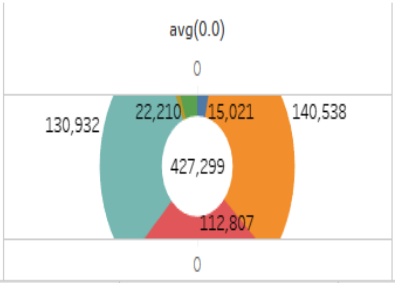
Donut Chart for Flaring Co2 Emission



Donut Chart for Cement Co2 Emission



Donut Chart for Oil Co2 Emission



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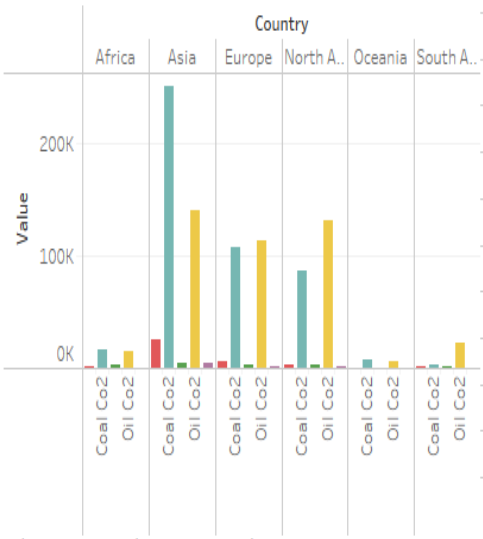
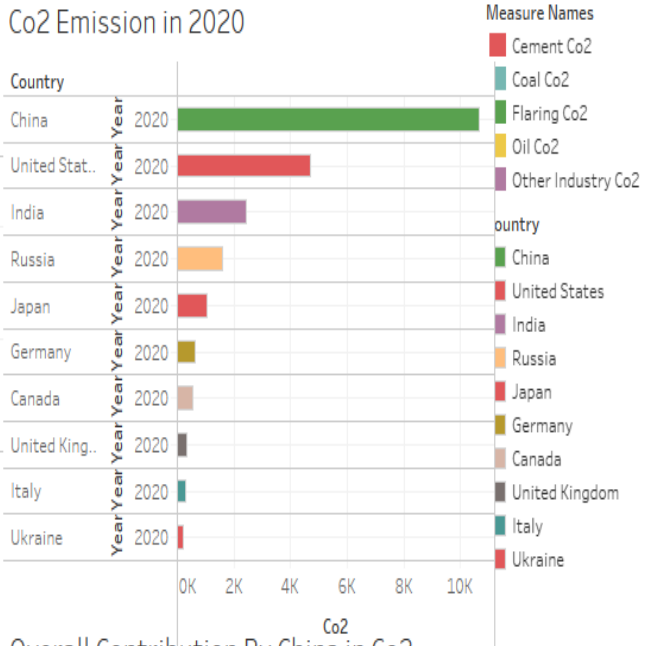
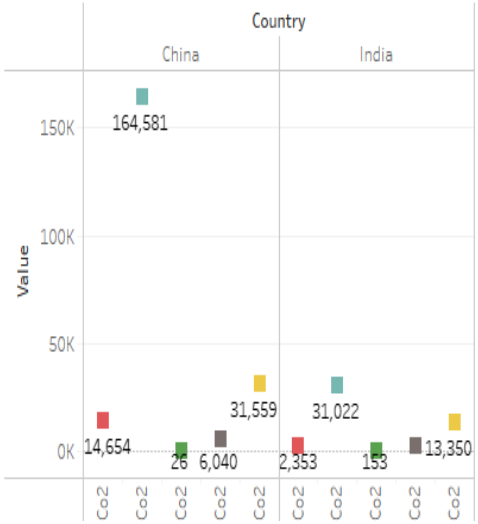
Continent Wise Contribution by Internal factors



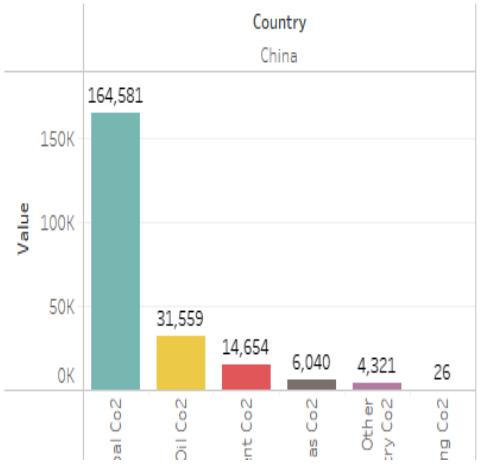
Co2 Emission in 2020



China vs India Internal Factors

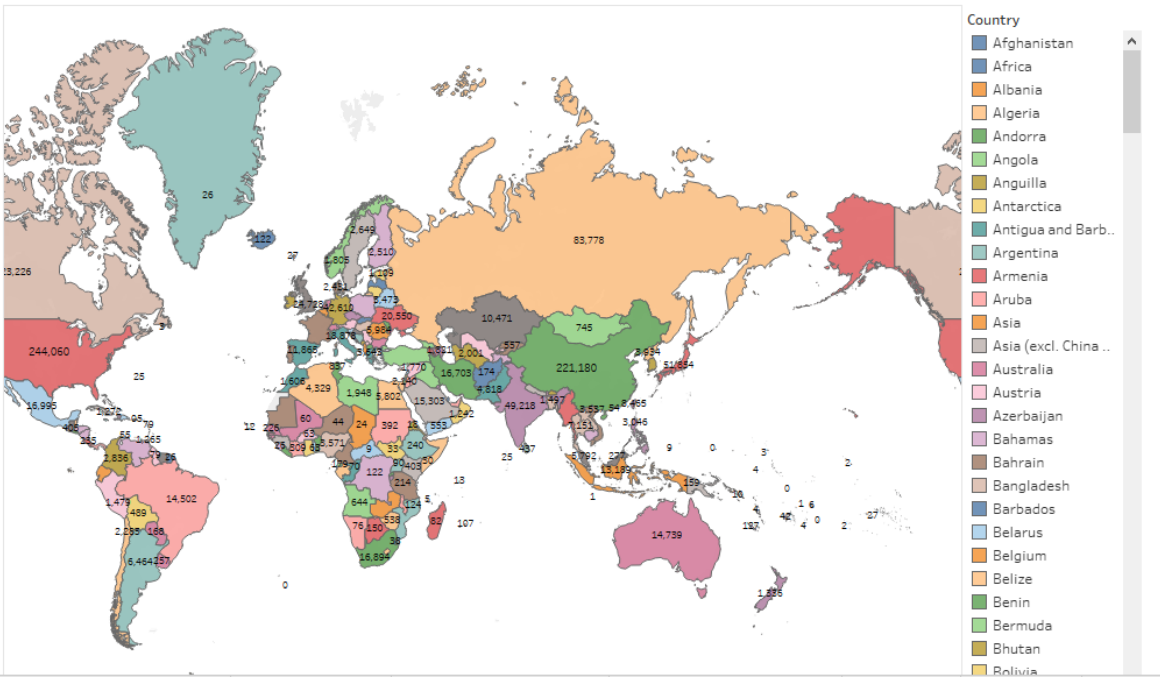


Overall Contribution By China in Co2 Emission



Co2 Emission Story

Total World Emission | Top Emitting Countries | Total co2 Emission Over Time | Co2 Emission India vs United States | Total Emission By Continents | Co2 Emission Per Capita | Co2 Fac



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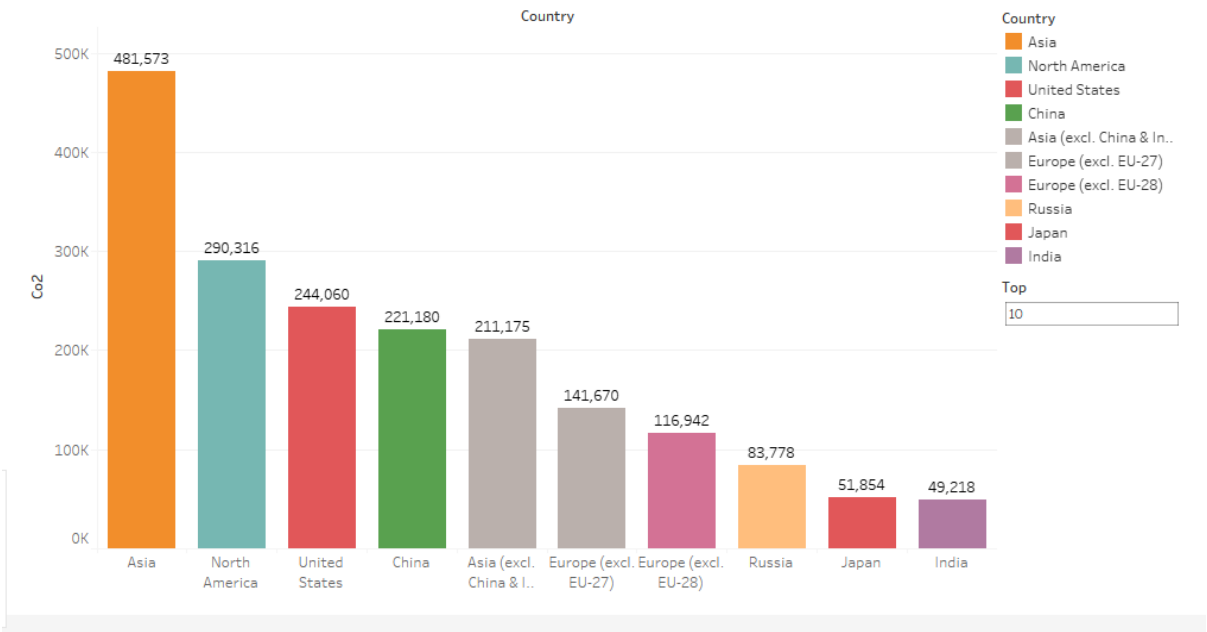

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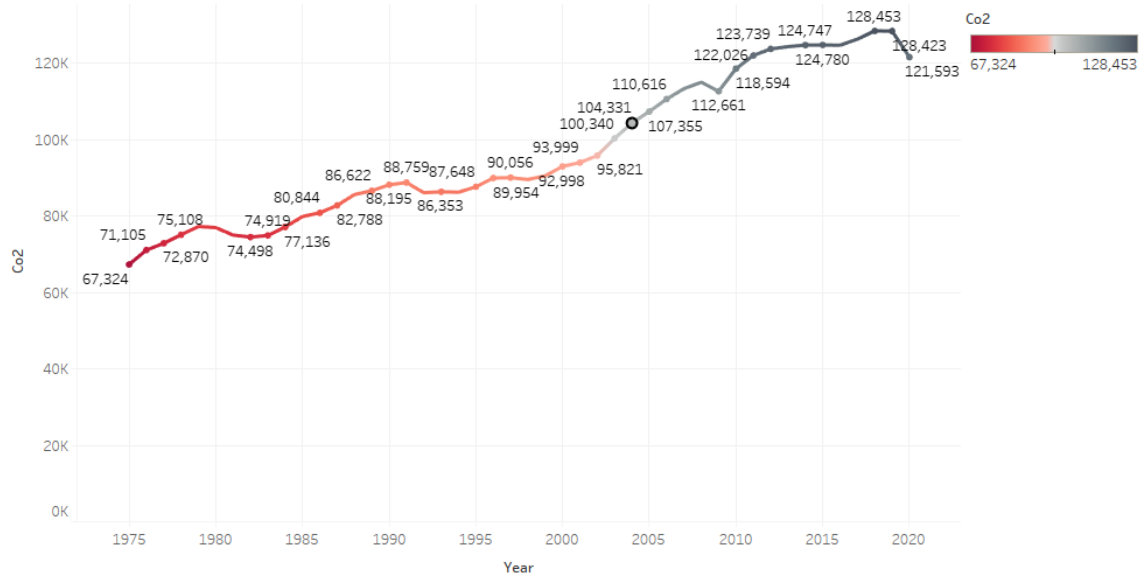

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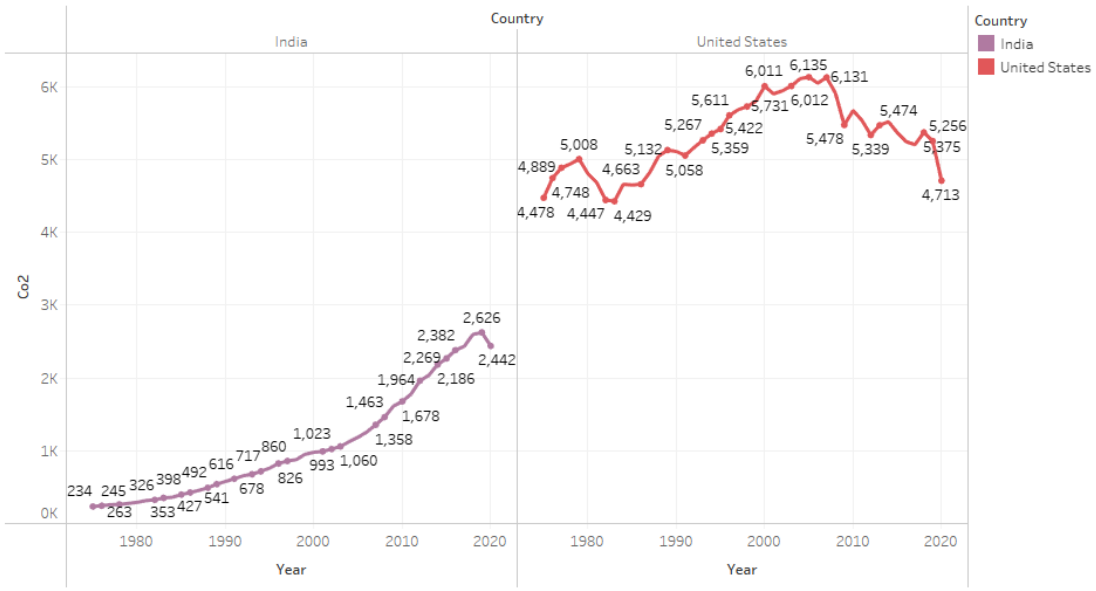

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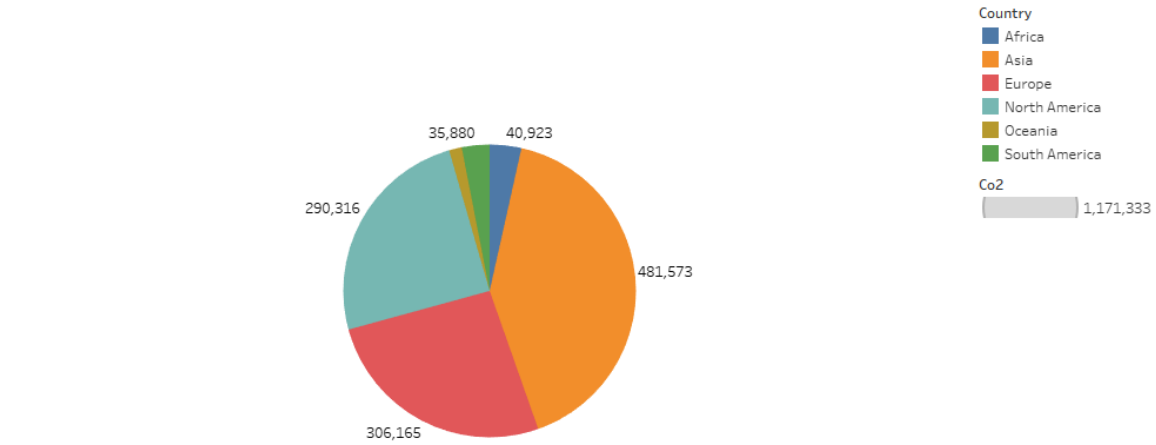
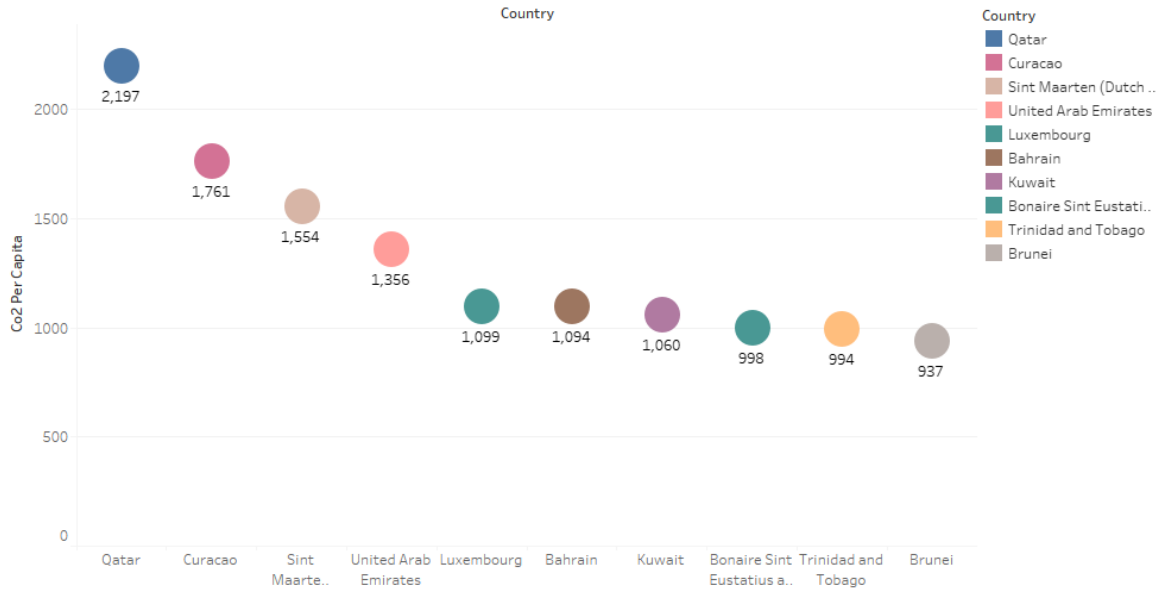


Co2 Emission Story

ia vs | Total Emission By Continents | **Co2 Emission Per Capita** | Co2 Emission by Other Factors | Emission Rate By Internal Factors | Donut Chart for Coal Co2 | Donut Chart for Gas Co2 Emission



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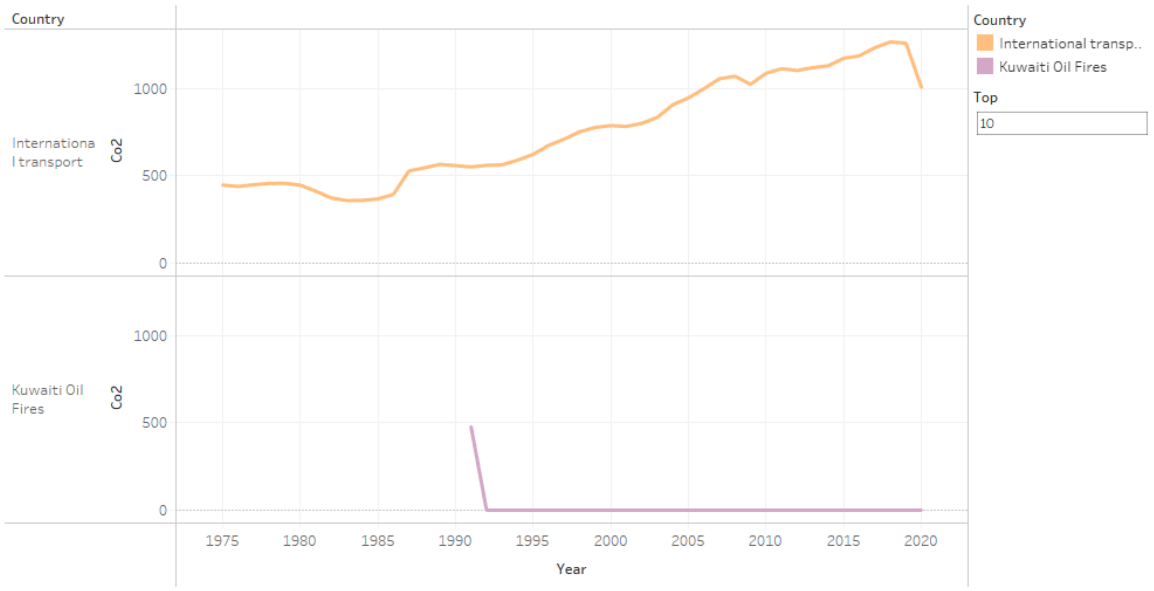

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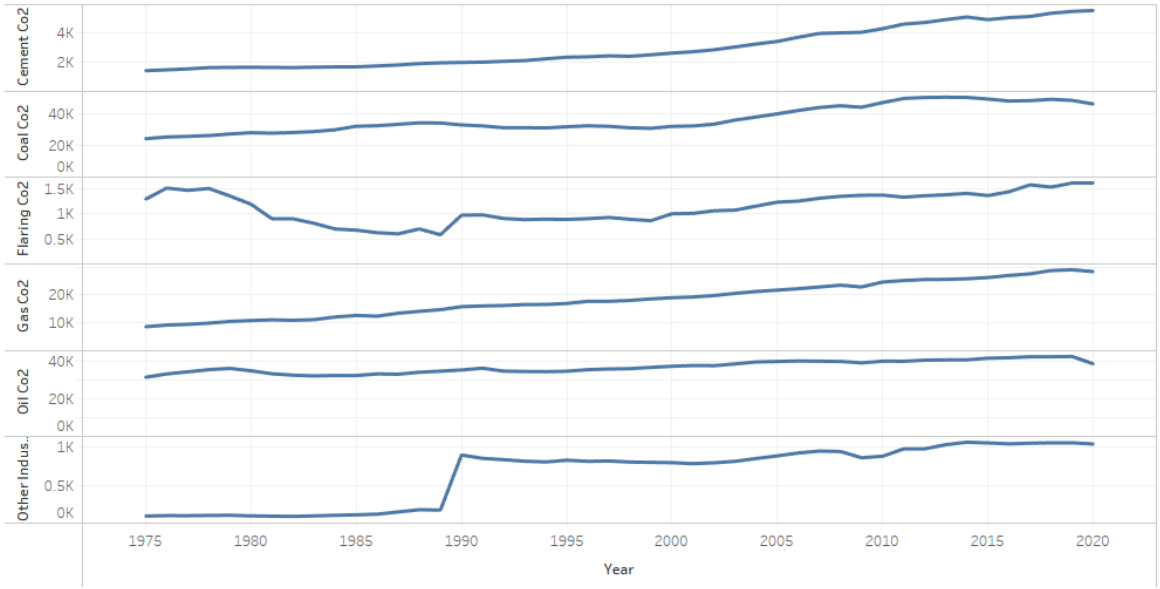

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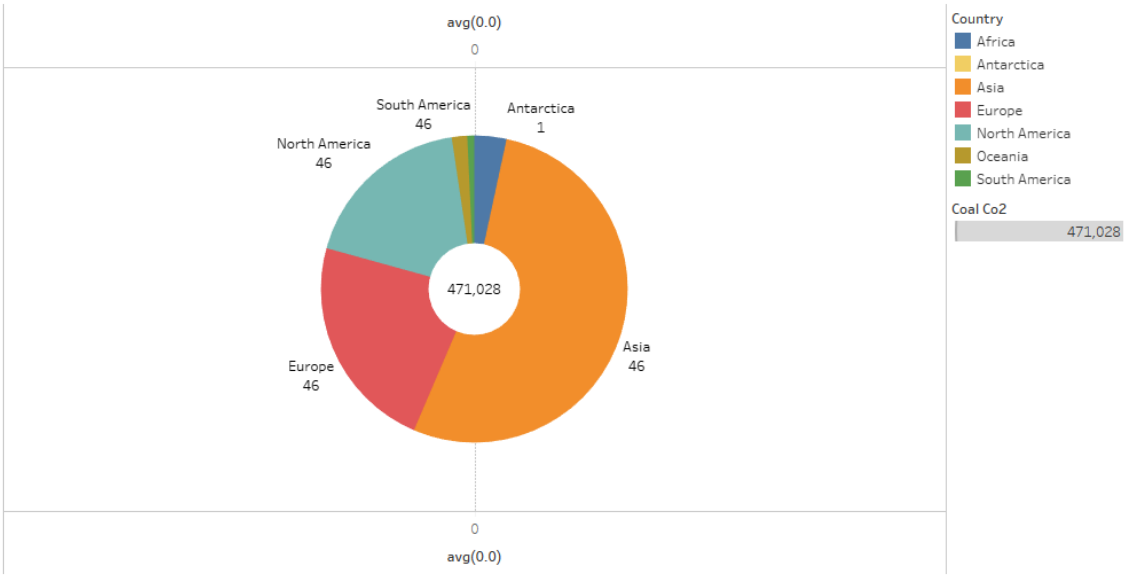
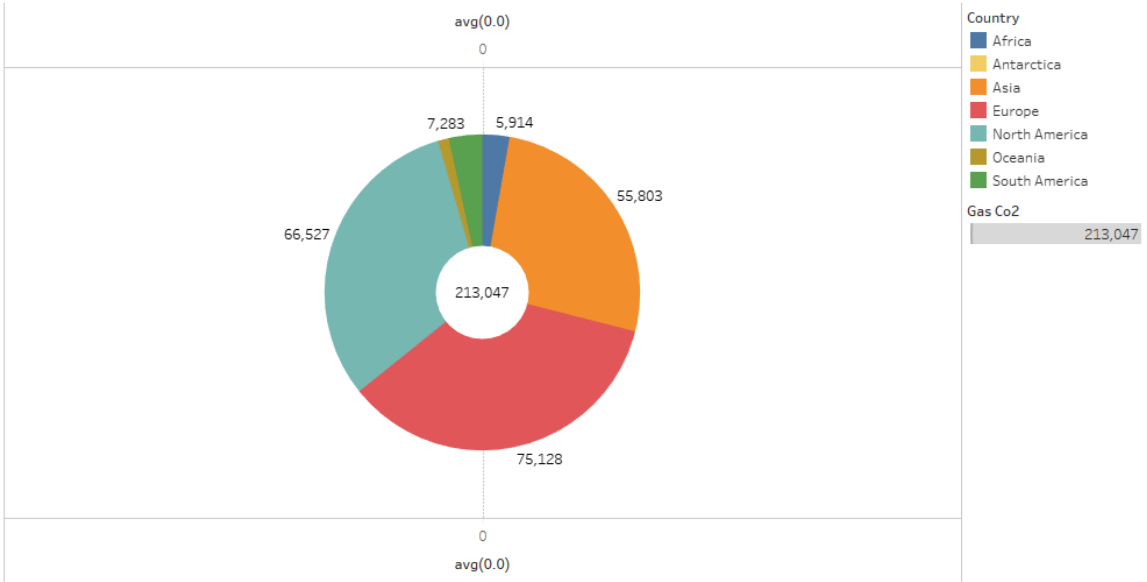
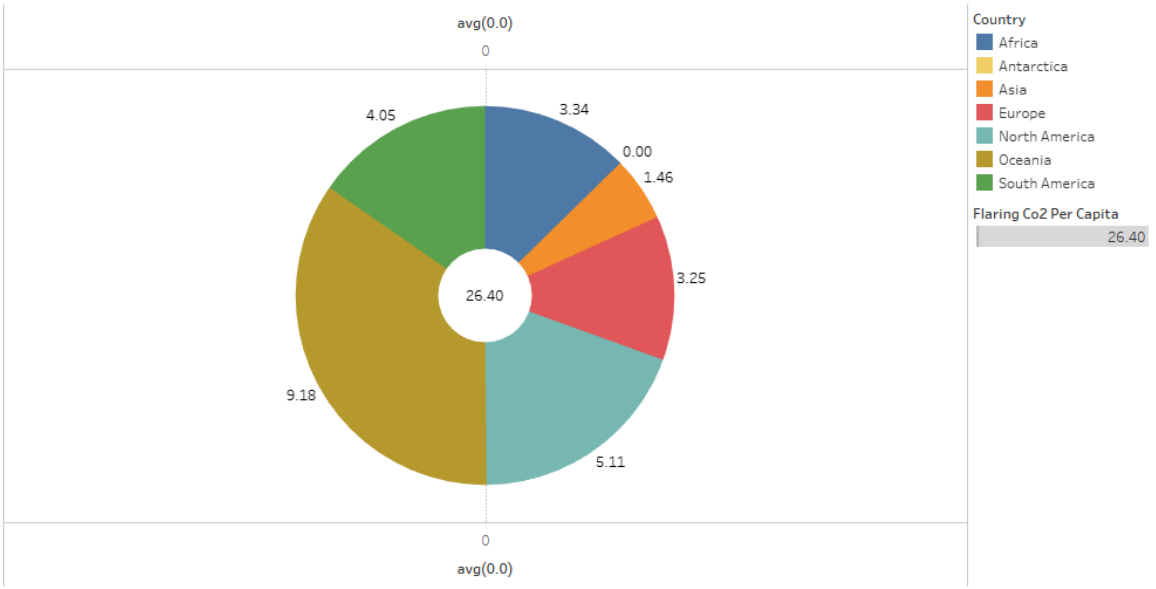


Co2 Emission Story



Co2 Emission Story

nission Rate By ternal Factors | Donut Chart for Coal Co2 | Donut Chart for Gas Co2 Emission | **Donut Chart for Flaring Co2 Emission** | Donut Chart for cement CO2 Emission | Donut Chartfor Oil Co2 Emission | Co2 Em Past 1



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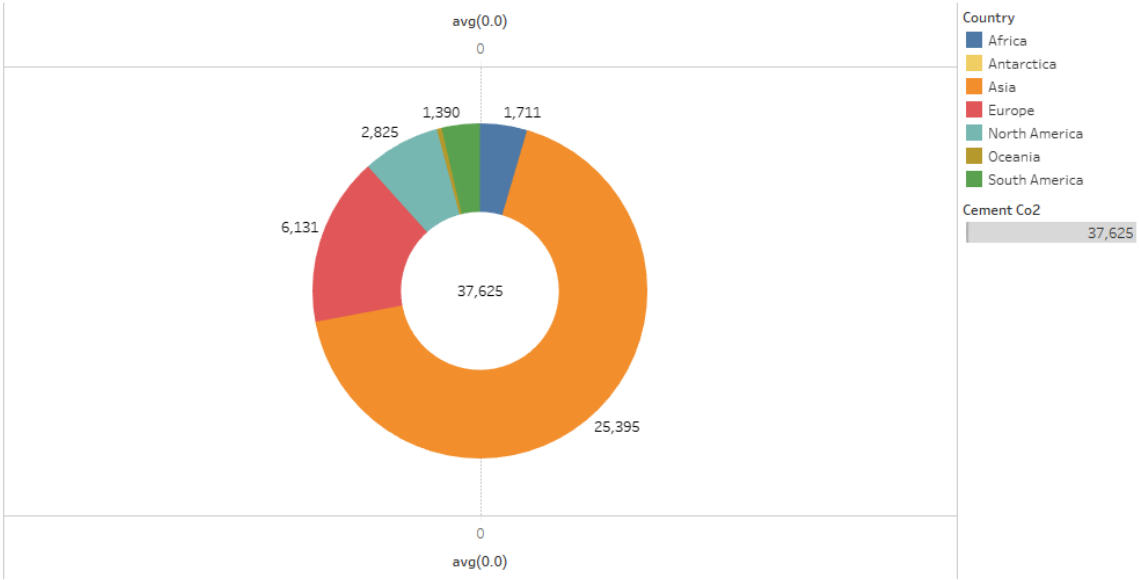

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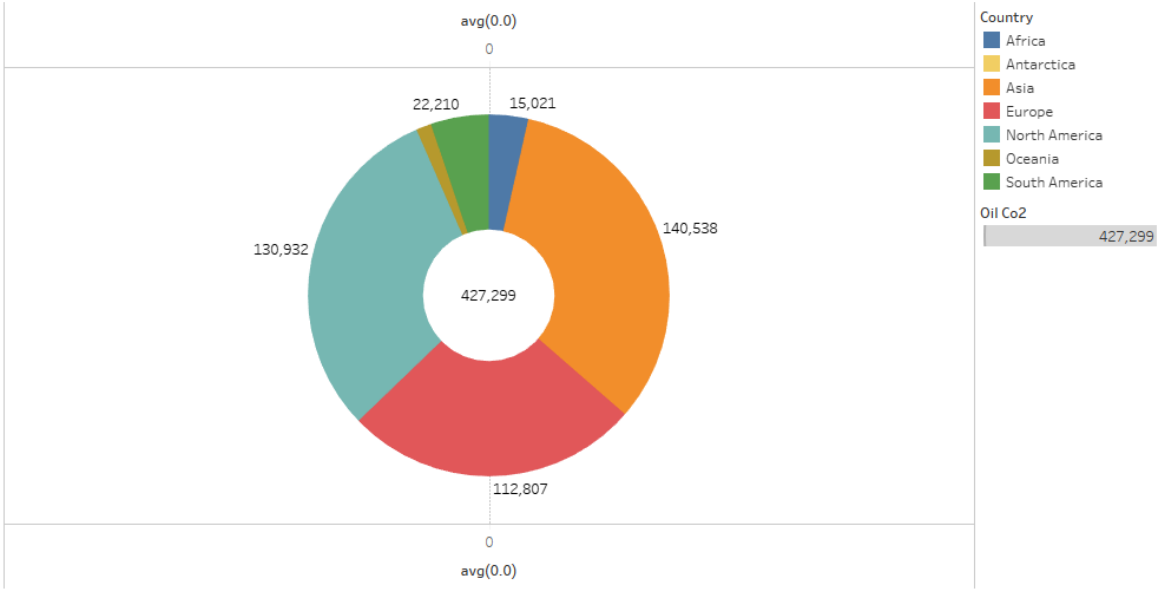
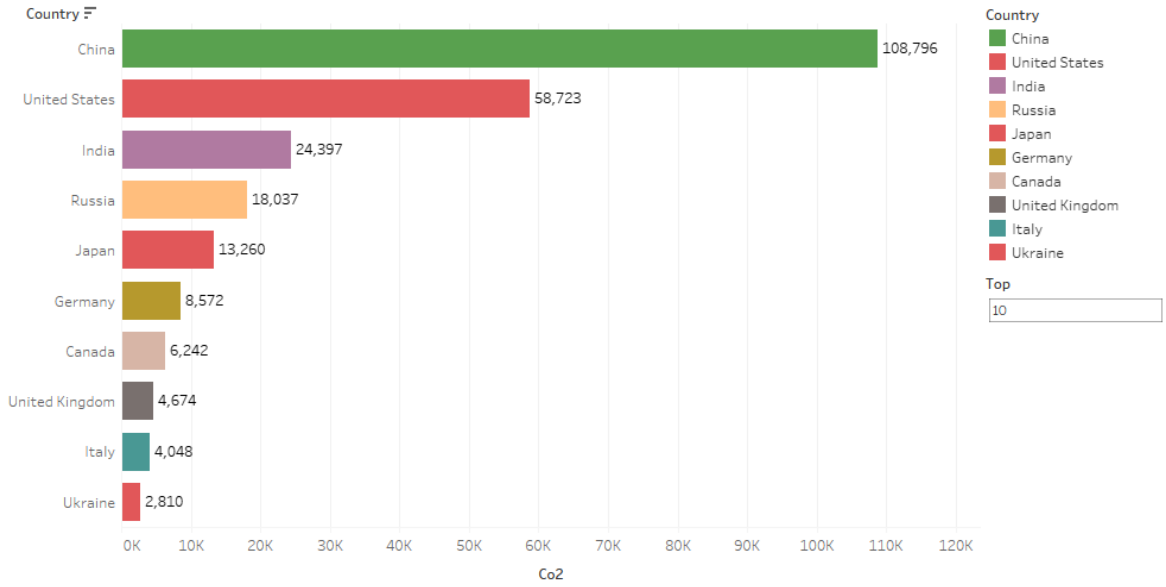
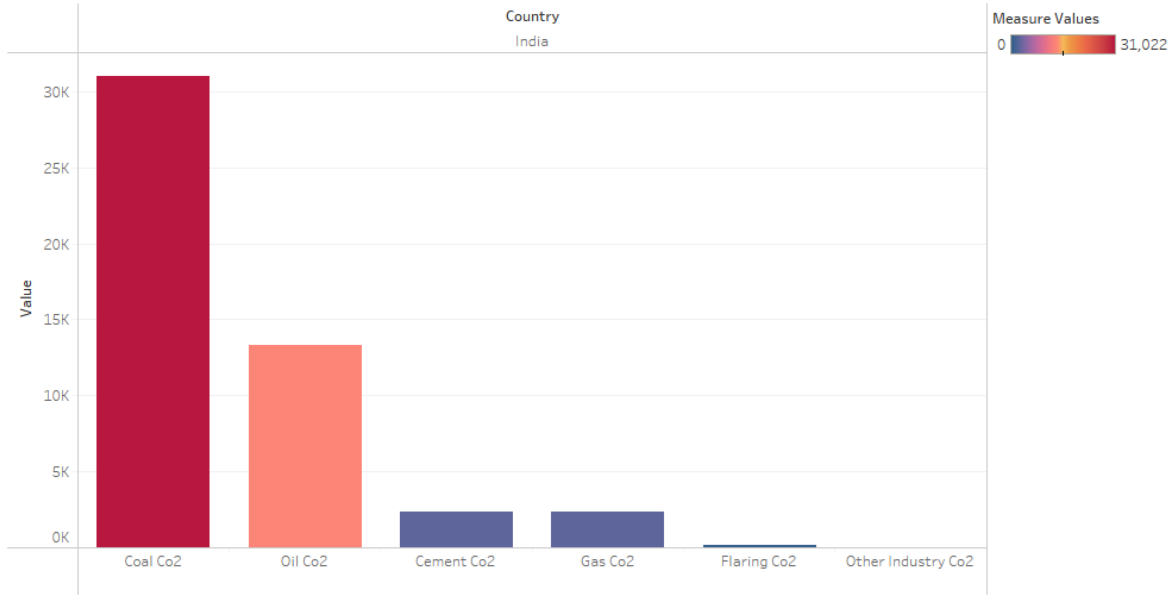


Co2 Emission Story

onut Chartfor Oil Co2 nission | **Co2 Emission Over Past 10 Years** | Overall Contribution By India in Co2 Emission | Cumulative Co2 and Co2 Per Capita Over Years | Continent wise Contribution by Internal Factors | Co2 Emission from 1990 to 2020 Based on Internal Factors | Co2 Em



Co2 Emission Story



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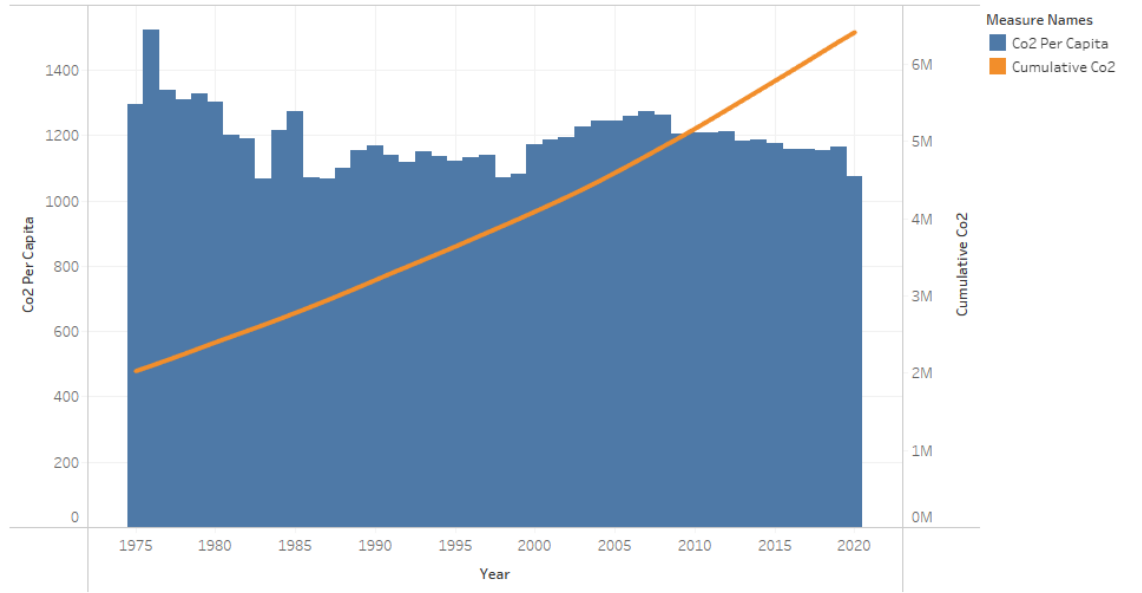

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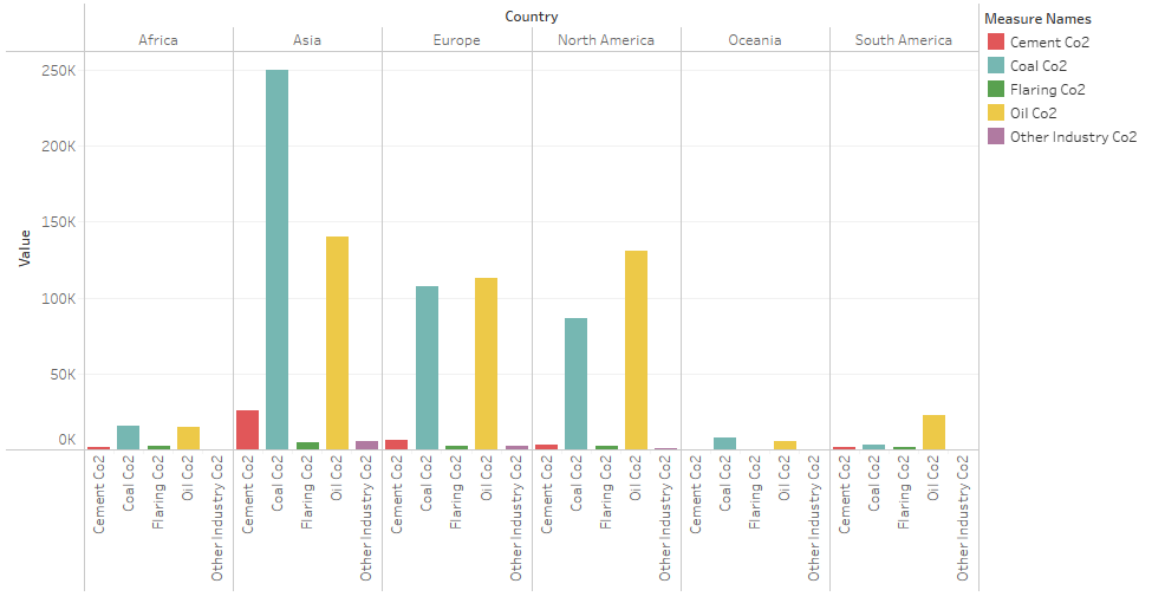
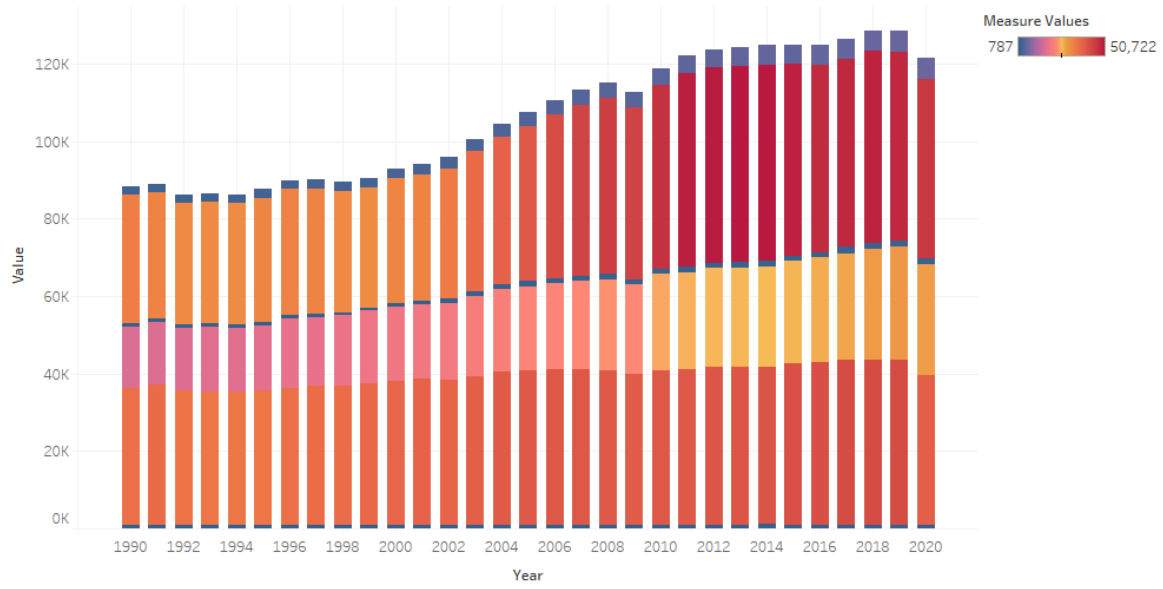
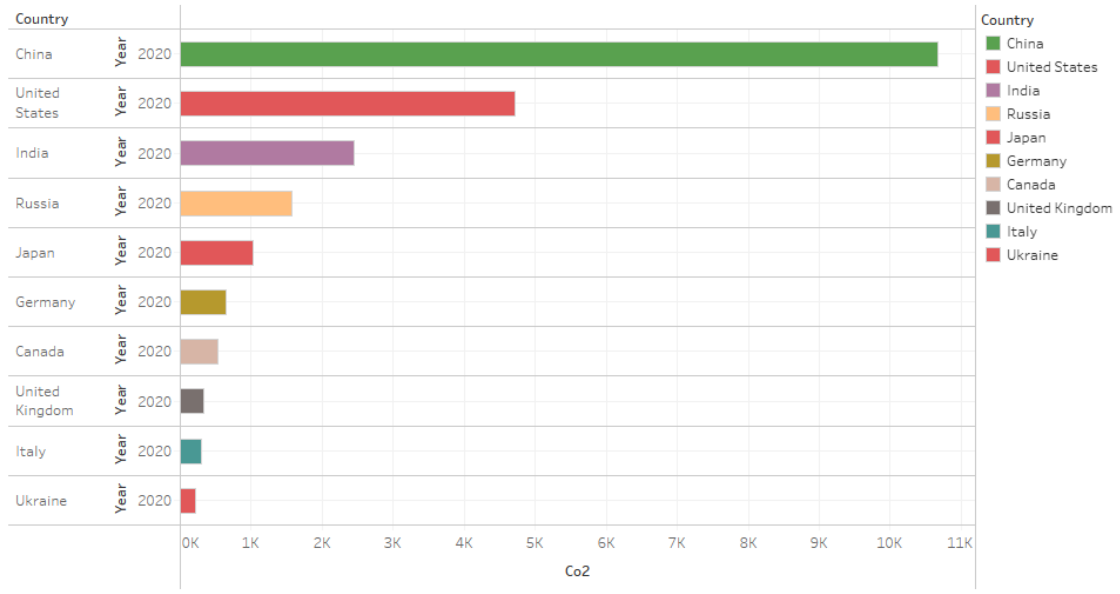


Co2 Emission Story



Co2 Emission Story

Cumulative Co2 and Co2 Per Capita Over Years | Continent wise Contribution by Internal Factors | Co2 Emission from 1990 to 2020 Based on Internal Factors | **Co2 Emission in 2020** | China vs India Internal Factors | Overall Contribution by China in Co2 Emission



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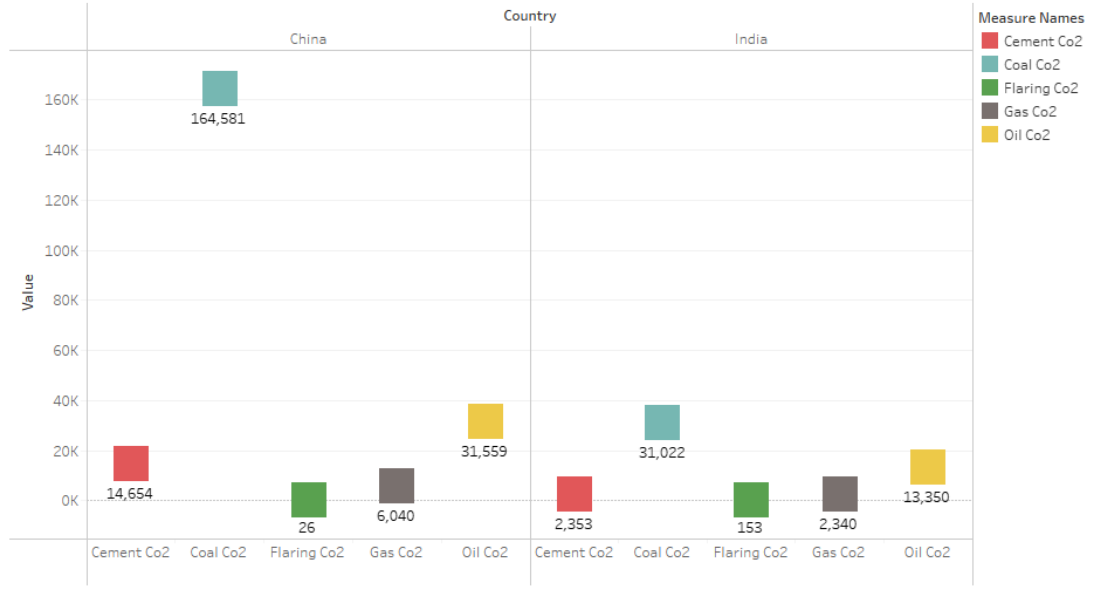

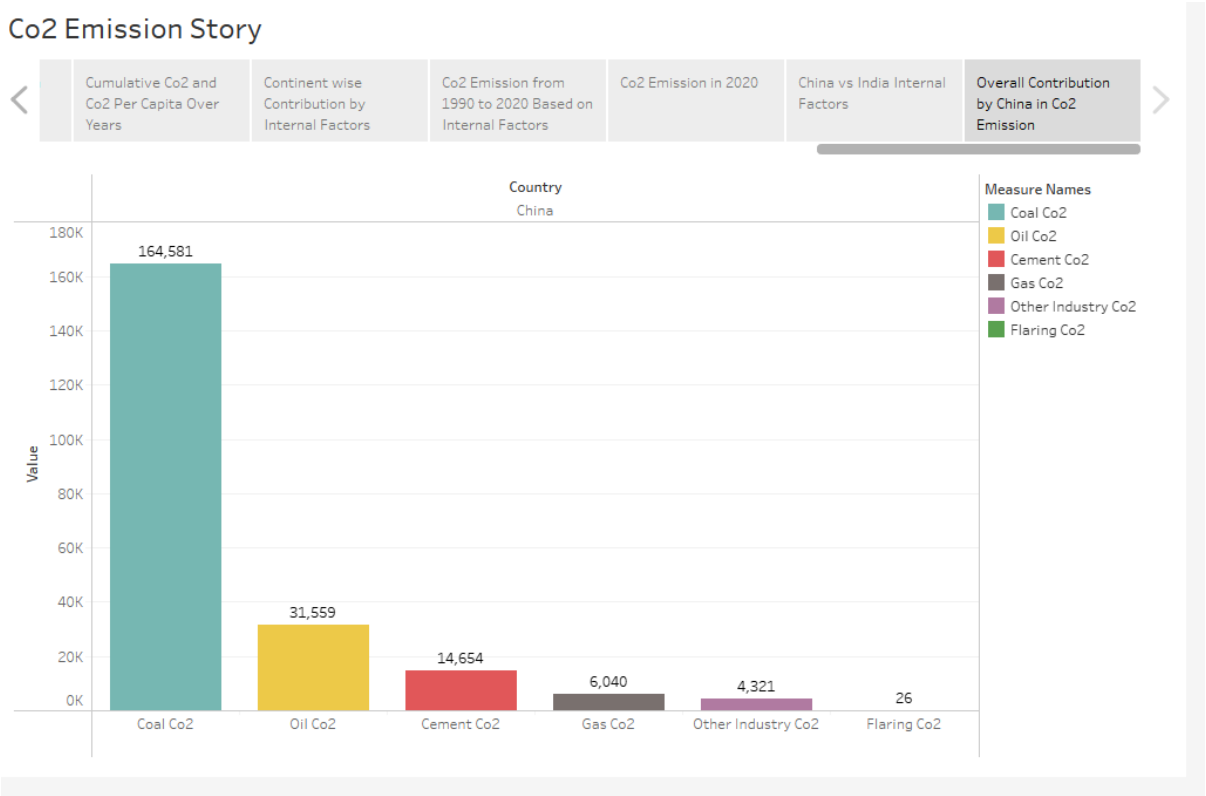

4. ADVANTAGES

Green plants grow faster with more CO2. Many also become more drought –resistant because higher CO2 levels allow plants to use water more efficiently. More abundant vegetation from increased CO2 is already apparent. Because air pollution and greenhouse gases are often released from the same sources, cutting greenhouse gas emissions in an effort to slow climate change also reduces air pollutants, such as find particulate matter. Reducing these co-emitted air pollutants improves air quality and benefits human health.

DISADVANTAGES

Our carbon footprint has a negative impact on the environment in multiple ways: It is the main cause of human –induced climate change, it contributes to urban air pollution, it leads to toxic acid rain, it adds to coastal and ocean acidification, and it worsens the melting of glaciers and polar ice. High CO2 levels, generally over 1000 ppm, indicate a potential problem with air circulation and fresh air in a room or building. In general, high CO2 levels indicate the need to examine the HVAC system. High CO2 levels can cause poor air quality and can even extinguish pilot lights on gas-powered appliance.

5. APPLICATION

CO2 use can support climate goals where the application is scalable, uses low-carbon energy and displaces a product with higher life-cycle emissions. Some CO2-derived products also involve permanent carbon retention, in particular building materials. A better understanding and improved methodology to quantify the life-cycle climate benefits of CO2 use applications are needed. The market for CO2 use is expected to remain relatively small in the short term, but early opportunities could be developed, especially those related to building materials. Public procurement of low-carbon products can help to create an early market for CO2-derived products and assist in the development of technical standards. In the long term, CO2 sourced from biomass or the air could play a key role in a net-zero CO2 emission economy, including as a carbon source for aviation fuels and chemicals.

6. CONCLUSION

Analysis 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 is an analysis and visualization of CO2 Emissions by country by region and overall on Earth.

7. FUTURE SCOPE

There are lots of considerations beyond emissions alone – such as cost and practicality – but, to an extent, we can choose whether our fleet is low or zero emissions, we can determine how our buildings are warmed and a manufacturer can look at ways to reduce the carbon cost of its production processes.However, a soft drinks maker can't control how we will dispose of its plastic bottles, nor can an appliance manufacturer decree whether we use the most or least eco-friendly settings on our laundry machines .It's somewhat easier to quantify emissions for scopes. For energy use, for example, companies can source the data needed to convert direct purchases of gas and electricity into a value for the associated greenhouse gases.

8. APPENDIX

A. SOUECE CODE

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

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

    <title>Global Co2 Emission Analysis</title>
    <meta content="" name="description">
    <meta content="" name="keywords">

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

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

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

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

    <!-- =======================================================
  * Template Name: Arsha - v4.10.0
  * Template URL: https://bootstrapmade.com/arsha-free-bootstrap-html-template-corporate/
  * Author: BootstrapMade.com
  * License: https://bootstrapmade.com/license/
  ======================================================== -->
</head>

<body>

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

            <h1 class="logo"><img src="https://media.istockphoto.com/id/1323550608/vector/co2-reduction-
cloud-eco-vector-icon.jpg?s=612x612&w=0&k=20&c=jO3OZfYAg9gB8TWvzH8BR64Lq3pFrfHcOvxpSgB-cjA="> </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">
                <ul>
                    <li><a class="nav-link scrollto active" href="#hero">Home</a></li>
                    <li><a class="nav-link scrollto" href="#about">About</a></li>
                    <li><a class="nav-link scrollto" href="#dash">Dashboard</a></li>
                    <li><a class="nav-link scrollto" href="#services">Story</a></li>
                    <li><a class="nav-link scrollto" href="#portfolio">Visualizations</a></li>
                    <li><a class="nav-link scrollto" href="#report">Report</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 align-items-center">

        <div class="container">
            <div class="row">
                <div class="col-lg-6 d-flex flex-column justify-content-center pt-4 pt-lg-0 order-2 order-lg-
1" data-aos="fade-up" data-aos-delay="200">
                    <h1>Welcome to Global Co2 Emission Analysis for Year 2020</h1>
                    <h2>Carbon dioxide emissions are the primary driver of global climate change. It’s widely
recognised that to avoid the worst impacts of climate change, the world needs to urgently reduce
emissions.</h2>
                    <div class="d-flex justify-content-center justify-content-lg-start">
                        <a href="#about" class="btn-get-started scrollto">Get Started</a>
                        <a href="https://www.youtube.com/watch?v=jDDaplaOz7Q" class="glightbox btn-watch-
video"></a>
                    </div>
                </div>
                <div class="col-lg-6 order-1 order-lg-2 hero-img" data-aos="zoom-in" data-aos-delay="200">
                    <img
src="https://www.treehugger.com/thmb/LbdMV9gbfA1S7Y3SB0XhlSl4EFw=/1500x0/filters:no_upscale():max_bytes(15000
0):strip_icc()/co-why-is-carbon-dioxide-bad-4864246_V2-4ea7c0936b5a4cd3b8d4f2b41ec02f63.png" class="img-fluid
animated" alt="">
                </div>
            </div>
        </div>

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

    <main id="main">

        <!-- ======= Clients Section ======= -->

        <!-- End Cliens Section -->

        <!-- ======= About Us Section ======= -->
        <section id="about" class="about">
            <div class="container">

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

                <div class="row content">
                    <div class="col-lg-12">
                        <p>
                            Carbon dioxide emissions are those stemming from the burning of fossil fuels and
the manufacture of cement. They include carbon dioxide produced during consumption of solid, liquid, and gas
fuels and gas flaring.
```

```
                        </p>
                        <p>
                            Global carbon dioxide (CO2) emissions from fossil fuels and industry have
increased considerably since 2000, and in 2019 reached a record high of 36.7 billion metric tons of CO2. In
2020, the COVID-19 pandemic caused global CO2 emissions to plummet five
                            percent to 34.81 billion metric tons.</p>

                        <p> Historically, major global events cause emission reductions. The 2009 global
recession caused worldwide CO2 emissions to fall by approximately 460 million metric tons. But this pales in
comparison to the emission reductions in
                            2020. Countries around the world were put under strict lockdowns, meaning
transportation and industrial activities were significantly reduced. CO2 emission levels in India dropped for
the first time in four decades in the year
                            ending March 2020. Global CO2 emissions per capita also experienced a substantial
decline in 2020, falling to an average of 4.47 metric tons per person.</p>

                    </div>
                </div>

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

        <!-- ======= Why Us Section ======= -->
        <section id="dash" class="">
            <div class="container-fluid" data-aos="fade-up">
                <div class="section-title">
                    <h2>Dashboard</h2>
                </div>

                <div class='tableauPlaceholder' id='viz1681629028814' style='position: relative'><noscript><a
href='#'><img alt='Dashboard 1 '
src='https:&#47;&#47;public.tableau.com&#47;static&#47;images&#47;Co&#47;Co2DemoDashboard&#47;Dashboard1&#47;
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='Co2DemoDashboard&#47;Dashboard1' /><param
name='tabs' value='no' /><param name='toolbar' value='yes' /><param name='static_image'
value='https:&#47;&#47;public.tableau.com&#47;static&#47;images&#47;Co&#47;Co2DemoDashboard&#47;Dashboard1&#4
7;1.png' /> <param name='animate_transition' value='yes' /><param name='display_static_image' value='yes'
/><param name='display_spinner' value='yes' /><param name='display_overlay' value='yes' /><param
name='display_count' value='yes' /><param name='language' value='en-US' /><param name='filter'
value='publish=yes' /></object></div>                <script type='text/javascript'>                    var
divElement = document.getElementById('viz1681629028814');                    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='1877px';}                    var scriptElement =
document.createElement('script');                    scriptElement.src =
'https://public.tableau.com/javascripts/api/viz_v1.js';
 vizElement.parentNode.insertBefore(scriptElement, vizElement);                </script>

            </div>




            <!-- End Why Us Section -->
            <section id="services" class="services">
                <div class="container" data-aos="fade-up">
                    <div class="section-title">
                        <h2>Story</h2>
                    </div>

                    <div class='tableauPlaceholder' id='viz1681629171021' style='position:
relative'><noscript><a href='#'><img alt='Co2 Emission Story '
src='https:&#47;&#47;public.tableau.com&#47;static&#47;images&#47;Co&#47;Co2DemoStory_16811160301870&#47;Co2E
missionStory&#47;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='Co2DemoStory_16811160301870&#47;Co2EmissionStory' /><param name='tabs' value='no' /><param
name='toolbar' value='yes' /><param name='static_image'
value='https:&#47;&#47;public.tableau.com&#47;static&#47;images&#47;Co&#47;Co2DemoStory_16811160301870&#47;Co
2EmissionStory&#47;1.png' /> <param name='animate_transition' value='yes' /><param
name='display_static_image' value='yes' /><param name='display_spinner' value='yes' /><param
name='display_overlay' value='yes' /><param name='display_count' value='yes' /><param name='language'
value='en-US' /><param name='filter' value='publish=yes' /></object></div>                <script
type='text/javascript'>                    var divElement = document.getElementById('viz1681629171021');
              var vizElement = divElement.getElementsByTagName('object')[0];
 vizElement.style.width='1016px';vizElement.style.height='991px';                    var scriptElement =
document.createElement('script');                    scriptElement.src =
'https://public.tableau.com/javascripts/api/viz_v1.js';
 vizElement.parentNode.insertBefore(scriptElement, vizElement);                </script>

                </div>
            </section>

            <!-- ======= Skills Section ======= -->

            <!-- End Skills Section -->


            <!-- End Services Section -->

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

            <!-- End Cta Section -->

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

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

                    </div>

                    <div class="row portfolio-container">

                        <div class="col-lg-4 col-md-6 portfolio-item filter-web">
                            <div class="portfolio-wrap">
                                <img src="assets/img/img2.jpg" class="img-fluid" alt="">
                                <div class="portfolio-info">
                                    <h4>Image 1 </h4>

                                    <div class="portfolio-links">
                                        <a href="assets/img/portfolio/p1.jpg" data-gallery="portfolioGallery"
class="portfolio-lightbox" title="Web 3"><i class="bx bx-plus"></i></a>

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

                        <div class="col-lg-4 col-md-6 portfolio-item filter-web">
                            <div class="portfolio-wrap">
                                <img src="assets/img/img3.jpg" class="img-fluid" alt="">
                                <div class="portfolio-info">
                                    <h4>Image 2 </h4>

                                    <div class="portfolio-links">
                                        <a href="assets/img/portfolio/p1.jpg" data-gallery="portfolioGallery"
class="portfolio-lightbox" title="Web 3"><i class="bx bx-plus"></i></a>

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

```
                    </div>
                    <div class="col-lg-4 col-md-6 portfolio-item filter-web">
                        <div class="portfolio-wrap">
                            <img src="assets/img/img4.jpg" class="img-fluid" alt="">
                            <div class="portfolio-info">
                                <h4>Image 3 </h4>

                                <div class="portfolio-links">
                                    <a href="assets/img/portfolio/p1.jpg" data-gallery="portfolioGallery"
class="portfolio-lightbox" title="Web 3"><i class="bx bx-plus"></i></a>

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

                    <div class="col-lg-4 col-md-6 portfolio-item filter-web">
                        <div class="portfolio-wrap">
                            <img src="assets/img/img5.jpg" class="img-fluid" alt="">
                            <div class="portfolio-info">
                                <h4>Image 5</h4>
                                <div class="portfolio-links">
                                    <a href="assets/img/portfolio/p5.jpg" data-gallery="portfolioGallery"
class="portfolio-lightbox" title="Web 3"><i class="bx bx-plus"></i></a>
                                </div>
                            </div>
                        </div>
                    </div>
                    <div class="col-lg-4 col-md-6 portfolio-item filter-web">
                        <div class="portfolio-wrap">
                            <img src="assets/img/img6.jpg" class="img-fluid" alt="">
                            <div class="portfolio-info">
                                <h4>Image 6</h4>
                                <div class="portfolio-links">
                                    <a href="assets/img/portfolio/p5.jpg" data-gallery="portfolioGallery"
class="portfolio-lightbox" title="Web 3"><i class="bx bx-plus"></i></a>
                                </div>
                            </div>
                        </div>
                    </div>
                    <div class="col-lg-4 col-md-6 portfolio-item filter-web">
                        <div class="portfolio-wrap">
                            <img src="assets/img/img7.jpg" class="img-fluid" alt="">
                            <div class="portfolio-info">
                                <h4>Image 4</h4>
                                <div class="portfolio-links">
                                    <a href="assets/img/portfolio/p5.jpg" data-gallery="portfolioGallery"
class="portfolio-lightbox" title="Web 3"><i class="bx bx-plus"></i></a>
                                </div>
                            </div>
                        </div>
                    </div>


                </div>

            </div>
        </section>
        <section id="report" class="skills">
            <div class="container" data-aos="fade-up">
                <div class="section-title">
                    <h2>Report</h2>

                </div>
                <div class="row content">
                    <div class="col-md-5 order-1 order-md-2" data-aos="fade-right" data-aos-delay="100">
                        <img src="assets/img/r1.jpg" class="img-fluid" alt="">
                    </div>
```

```
                    <div class="col-lg-6 pt-4 pt-lg-0 content" data-aos="fade-left" data-aos-delay="100">
                        <h3>Top Co2 Emitting countries for Past 10 Years</h3>
                        <br>
                        <p class="fst-italic">
                            China is the highest Co2 Emitting country among the other countries.
                        </p>
                        <p class="fst-italic">
                            United States is the second highest Co2 Emitting country.
                        </p>
                        <p class="fst-italic">
                            India is the Third highest Co2 Emitting country.
                        </p>
                    </div>
                </div>
                <br>
                <br>

                <div class="row content">
                    <div class="col-md-5" data-aos="fade-right">
                        <img src="assets/img/r2.jpg" class="img-fluid" alt="">
                    </div>
                    <div class="col-md-7 pt-5" data-aos="fade-left">
                        <h3>Continents Contribution towards Co2 Emission</h3>
                        <br>
                        <p class="fst-italic">
                            Asian is the highest Co2 Emitting country among the other continents.
                        </p>
                        <p class="fst-italic">
                            Europe is the second highest Co2 Emitting continent.
                        </p>
                        <p class="fst-italic">
                            Antartica is the lowest Co2 Emitting countries because of low human
activity/existence in the continent.
                        </p>

                    </div>
                    <br>
                    <br>
                    <div class="row content">
                        <div class="col-md-5" data-aos="fade-right">
                            <img src="assets/img/r3.jpg" class="img-fluid" alt="">
                        </div>
                        <div class="col-md-7 pt-5" data-aos="fade-left">
                            <h3>Overall India Contribution towards Co2 Emission</h3>
                            <br>
                            <p class="fst-italic">
                                Coal is the highest factor of Co2 Emission.
                            </p>
                            <p class="fst-italic">
                                Oil is the second highest Co2 Emitting factor.
                            </p>
                        </div>
                    </div>
                    <div class="row content">
                        <div class="col-md-5 order-1 order-md-2" data-aos="fade-left">
                            <img src="assets/img/r5.jpg" class="img-fluid" alt="">
                        </div>
                        <div class="col-md-7 pt-5 order-2 order-md-1" data-aos="fade-right">
                            <h3>Overall Co2 Emission over time </h3>
                            <br>
                            <p class="fst-italic">
                                Co2 Emission in 1975 was 67324 (in metric tons).
                            </p>
                            <p class="fst-italic">
                                Co2 Emission in 2019 was 128423 (in metric tons) which was highest in the
past years.

                            </p>
                            <p class="fst-italic">
```

```
                                Co2 Emission in 2020 was found to be 121593 (in metric tons).
                            </p>
                        </div>
                    </div>

                </div>
            </div>



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

        <!-- ======= Team Section ======= -->

        <!-- End Team Section -->

        <!-- ======= Pricing Section ======= -->

        <!-- End Pricing Section -->


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

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

                <div class="row">

                    <div class="col-lg-5 d-flex align-items-stretch">
                        <div class="info">
                            <div class="address">
                                <i class="bi bi-geo-alt"></i>
                                <h4>Location:</h4>
                                <p>SmartBridge, Hyderabad,AndhraPradesh, India</p>
                            </div>

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

                            <div class="phone">
                                <i class="bi bi-phone"></i>
                                <h4>Call:</h4>
                                <p>+11 1234 1234<br>+11 4321 4321</p>
                            </div>


                        </div>

                    </div>

                    <div class="col-lg-7 mt-5 mt-lg-0 d-flex align-items-stretch">
                        <form action="forms/contact.php" method="post" role="form" class="php-email-
form">

                            <div class="row">
                                <div class="form-group col-md-6">
                                    <label for="name">Your Name</label>
                                    <input type="text" name="name" class="form-control" id="name"
required>
                                </div>
                                <div class="form-group col-md-6">
```

```
                                    <label for="name">Your Email</label>
                                    <input type="email" class="form-control" name="email" id="email"
required>
                                </div>
                            </div>
                            <div class="form-group">
                                <label for="name">Subject</label>
                                <input type="text" class="form-control" name="subject" id="subject"
required>
                            </div>
                            <div class="form-group">
                                <label for="name">Message</label>
                                <textarea class="form-control" name="message" rows="10"
required></textarea>
                            </div>
                            <div class="my-3">
                                <div class="loading">Loading</div>
                                <div class="error-message"></div>
                                <div class="sent-message">Your message has been sent. Thank you!</div>
                            </div>
                            <div class="text-center"><button type="submit">Send Message</button></div>
                        </form>
                    </div>

                </div>

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

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

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



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









            </div>
        </div>


        <div class="container footer-bottom clearfix">
            <div class="copyright">
                &copy; Copyright <strong><span>Arsha</span></strong>. All Rights Reserved
            </div>
            <div class="credits">
                <!-- All the links in the footer should remain intact. -->
                <!-- You can delete the links only if you purchased the pro version. -->
                <!-- Licensing information: https://bootstrapmade.com/license/ -->
                <!-- Purchase the pro version with working PHP/AJAX contact form:
https://bootstrapmade.com/arsha-free-bootstrap-html-template-corporate/ -->
                Designed by <a href="https://bootstrapmade.com/">Indra Prakash</a>
                <div class="social-links mt-3">
                    <a href="#" class="twitter"><i class="bx bxl-twitter"></i></a>
                    <a href="#" class="facebook"><i class="bx bxl-facebook"></i></a>
                    <a href="#" class="instagram"><i class="bx bxl-instagram"></i></a>
```

```
                    <a href="#" class="google-plus"><i class="bx bxl-skype"></i></a>
                    <a href="#" class="linkedin"><i class="bx bxl-linkedin"></i></a>
                </div>
            </div>
        </div>
    </footer>
    <!-- End Footer -->

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

    <!-- Vendor JS Files -->
    <script src="assets/vendor/aos/aos.js"></script>
    <script src="assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
    <script src="assets/vendor/glightbox/js/glightbox.min.js"></script>
    <script src="assets/vendor/isotope-layout/isotope.pkgd.min.js"></script>
    <script src="assets/vendor/swiper/swiper-bundle.min.js"></script>
    <script src="assets/vendor/waypoints/noframework.waypoints.js"></script>
    <script src="assets/vendor/php-email-form/validate.js"></script>

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

</body>

</html>
```