

Unearthing the Environmental Impact of Human Activity - A Global CO₂ Emission Analysis

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. This will help researchers and environment experts to predict global warming. So countries should set a goal to decrease this amount yearly.

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.


1.2 Purpose

The project implies the common people to understand the emission of Co₂ all over the world. The purpose of the project to convey the awareness about the Co₂ emission to the peoples to maintain or to reduce the emission of Co₂ gases to maintain a pollution-less environment. But Co₂ is commonly present in air. And then we can achieve the goal that is decrease in Co₂ emission. Every human must follow to reduce the emission of Co₂. In that, Year by Year Co₂ emissions are increasing in United States, China and India and in so many countries. So, we could restrict them.

2 Problem Definition & Design Thinking

2.1 Empathy Map

Template



Empathy map

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

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Build empathy

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

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

Where would I start?

It's terrible not to read!

It's a natural strategy!

It's a hassle for me!

It's convenient!

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

How can I get ahead?

From my example, will I start?

What can I do?

What is the value of my?

It is a great route to go on!

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

Takes behaviour

No risk to clients

High risk to business

Proves someone trust each

Model: robust, proven, secure


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


Fears too

Worries


Complains


Lies something learned




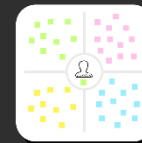


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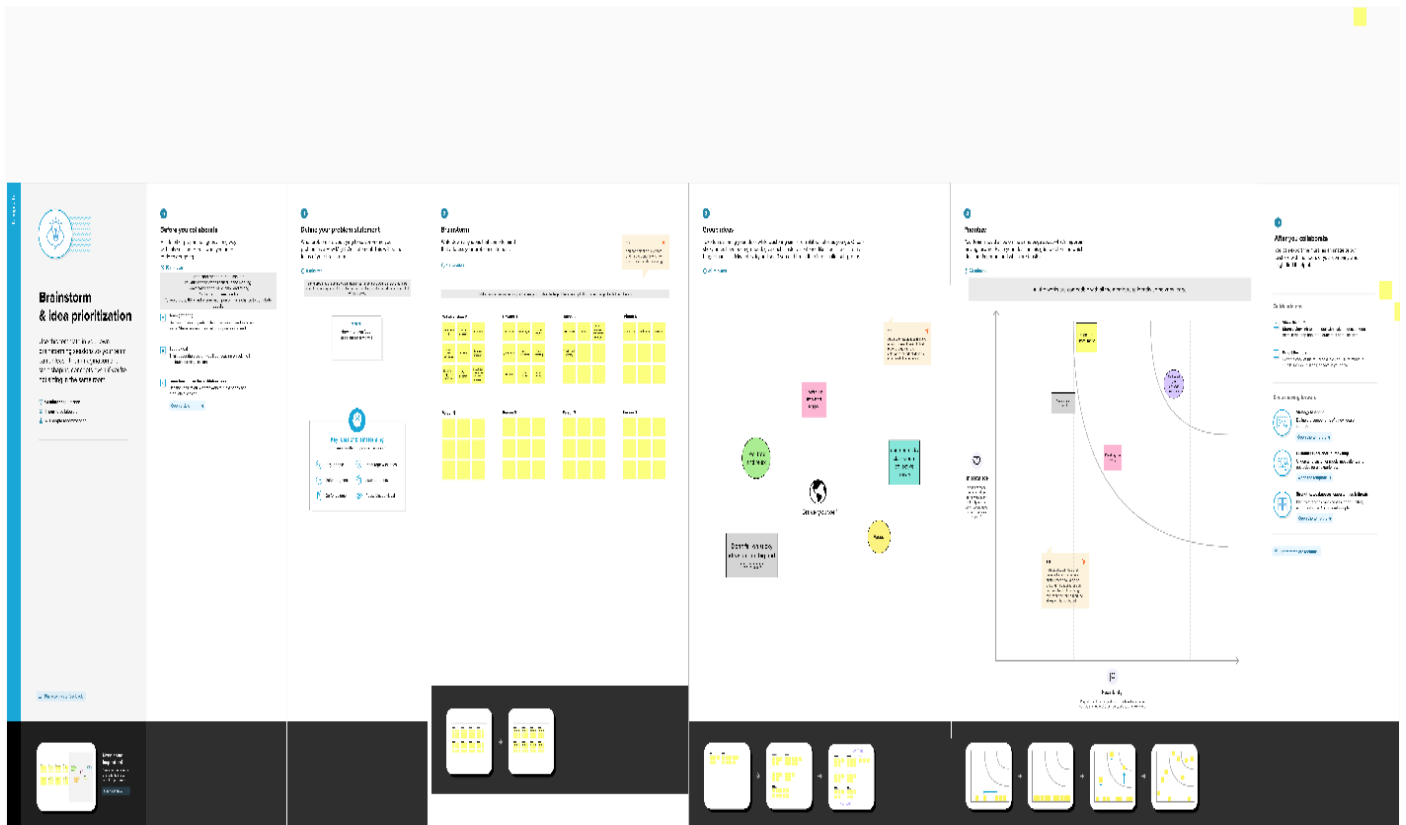




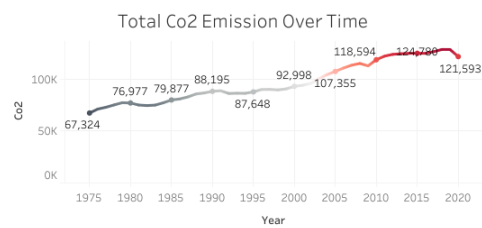
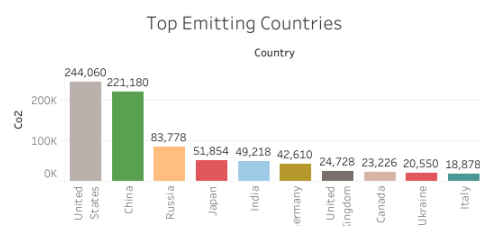
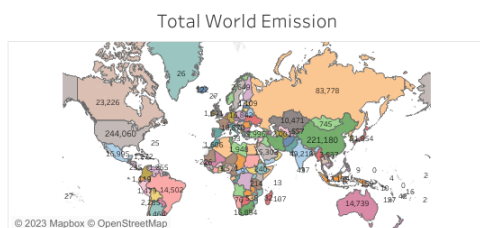




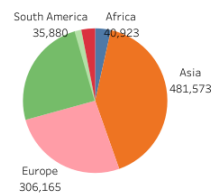
2.2 Ideation & Brainstorming Map



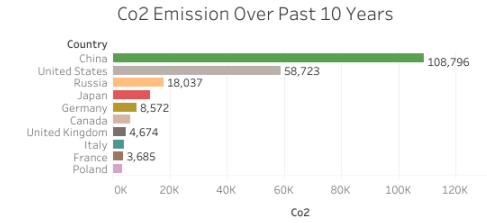
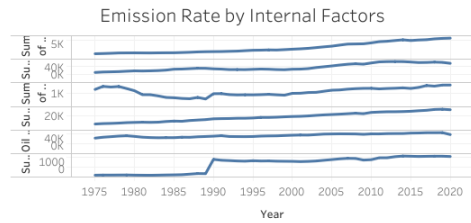
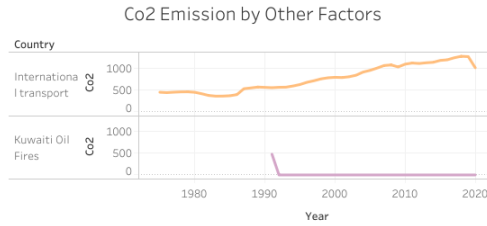
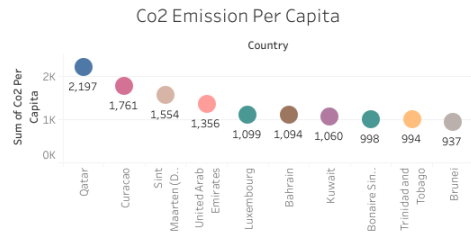
3 RESULT



Total Emission By Continents

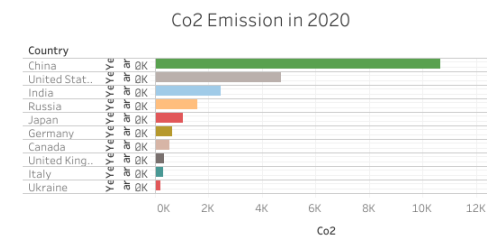
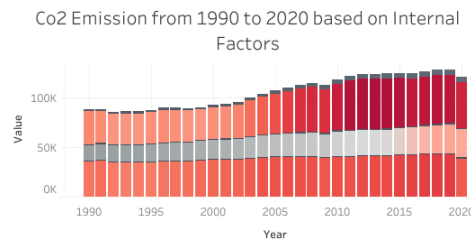
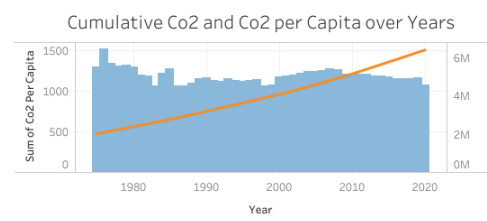
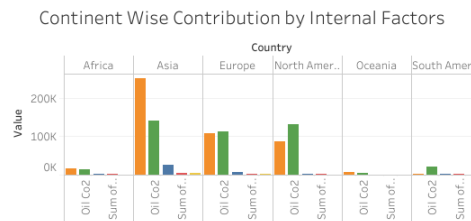


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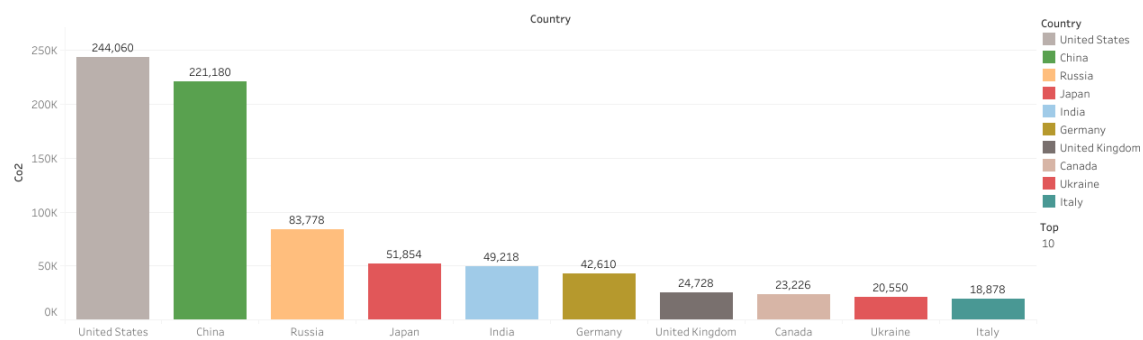


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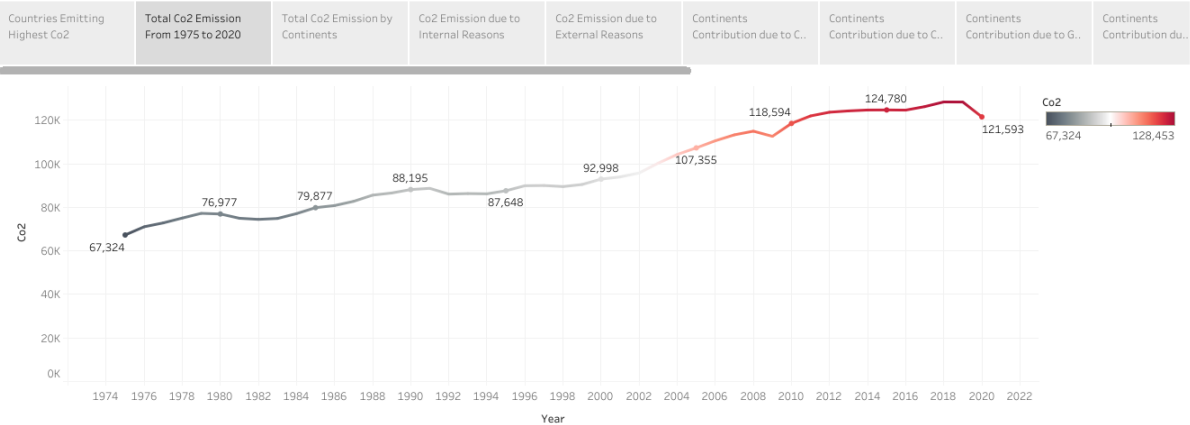
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Co2 Emission Story

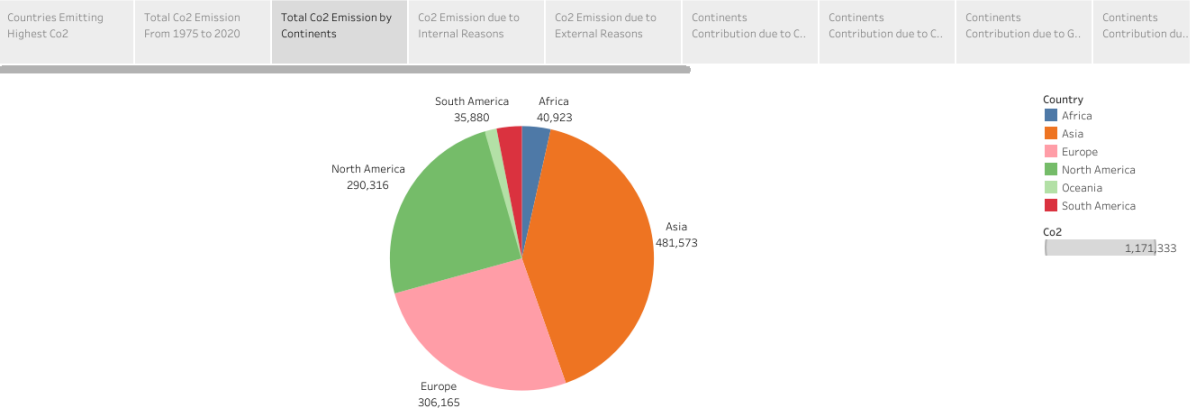
Countries Emitting Highest Co2	Total Co2 Emission From 1975 to 2020	Total Co2 Emission by Continents	Co2 Emission due to Internal Reasons	Co2 Emission due to External Reasons	Continents Contribution due to C..	Continents Contribution due to C..	Continents Contribution due to G..	Continents Contribution due to G..
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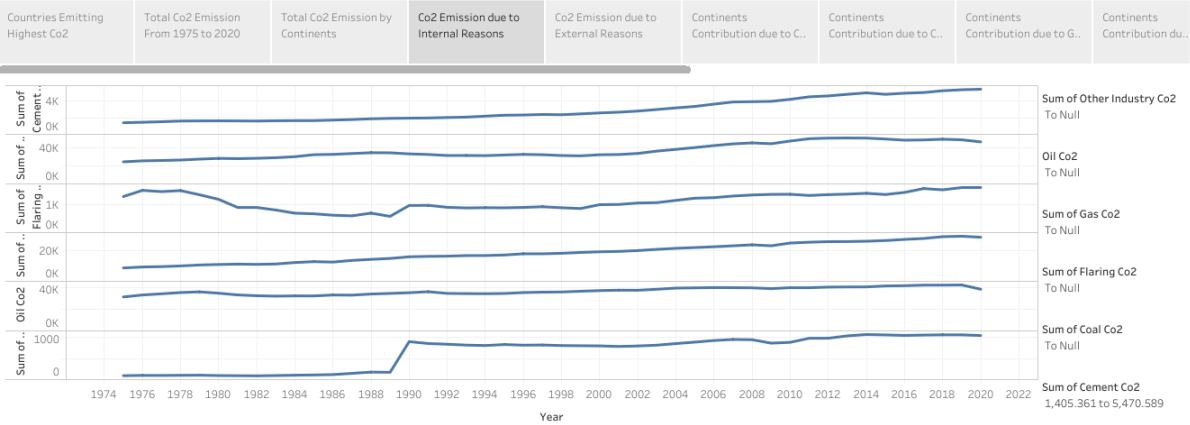
Co2 Emission Story



Co2 Emission Story

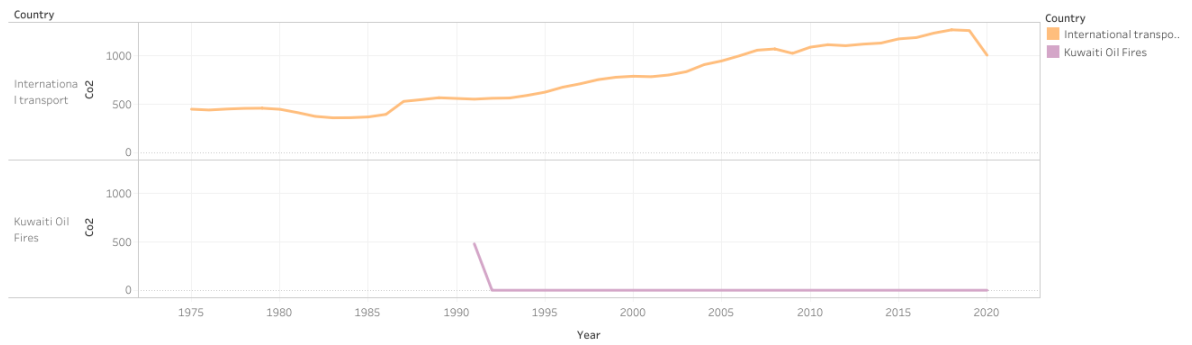


Co2 Emission Story



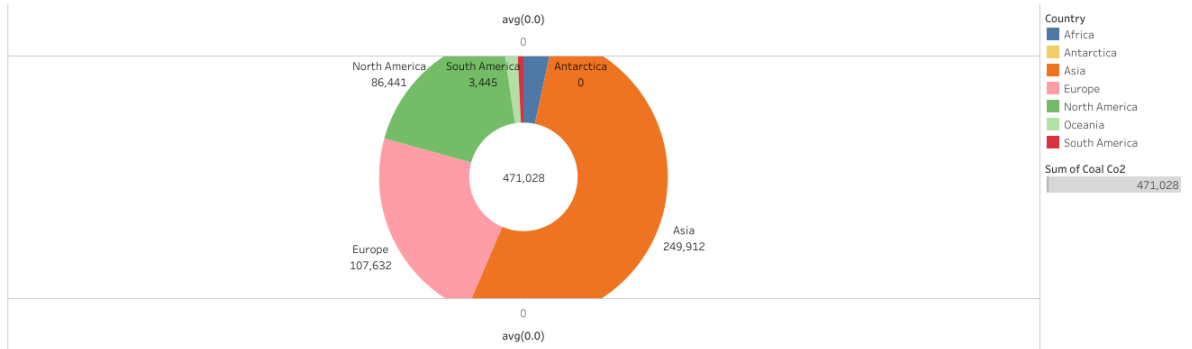
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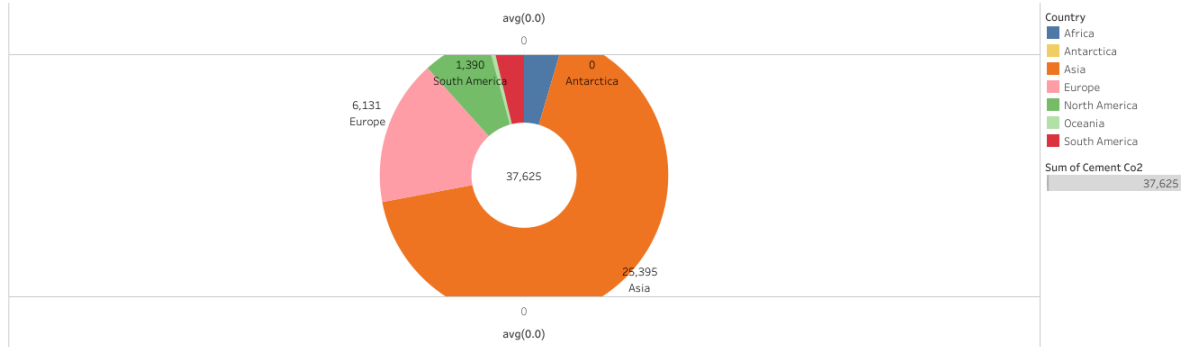
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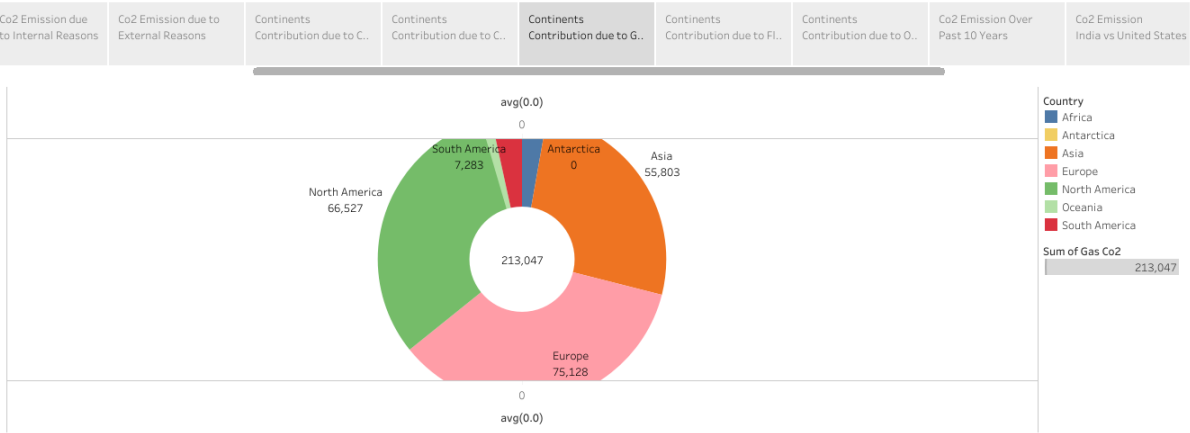


Co2 Emission Story

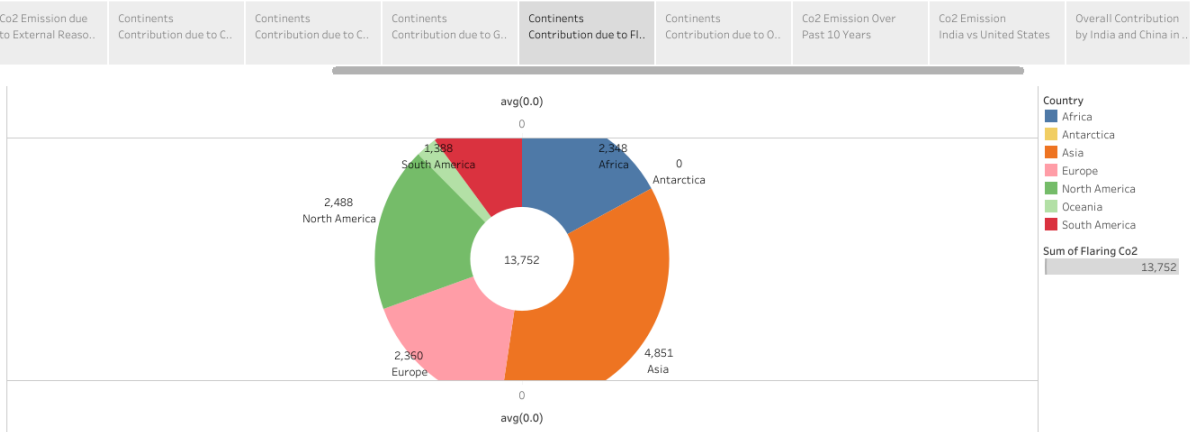
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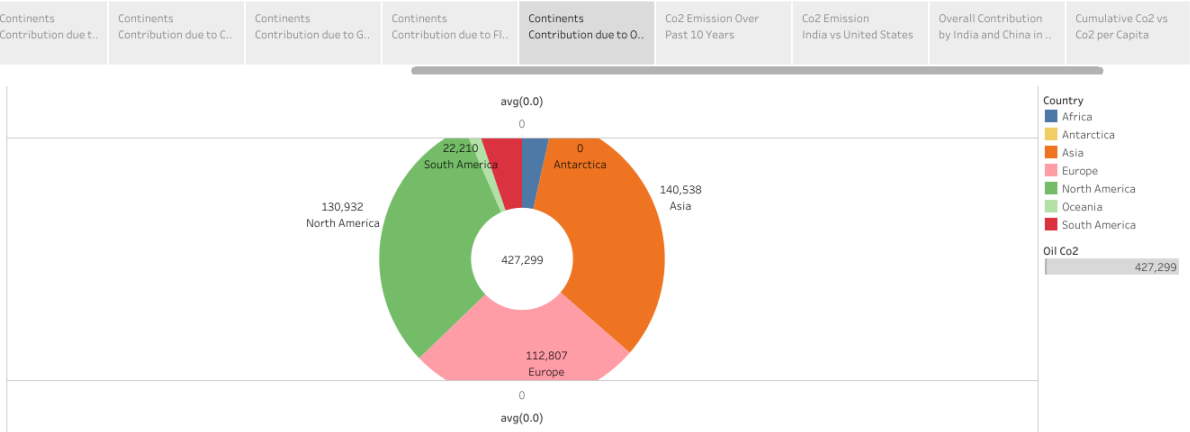
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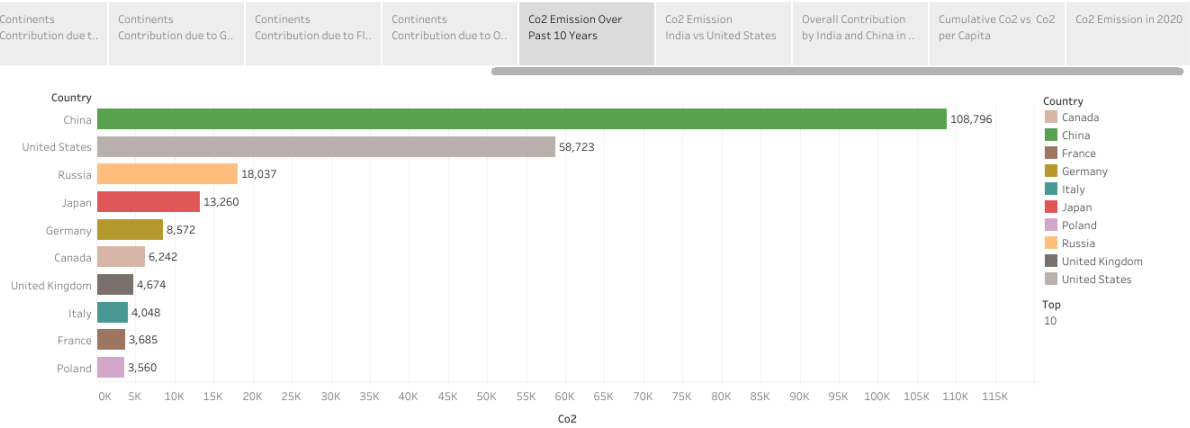
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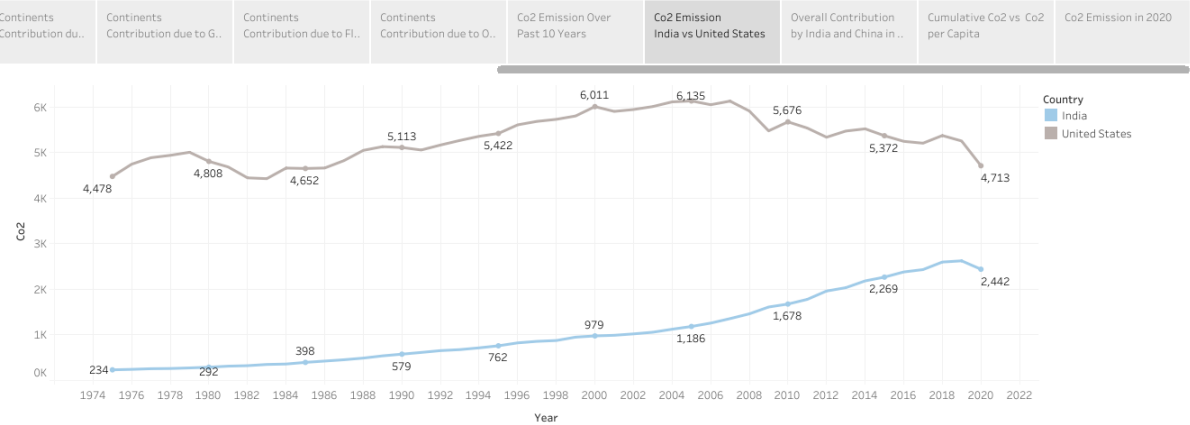
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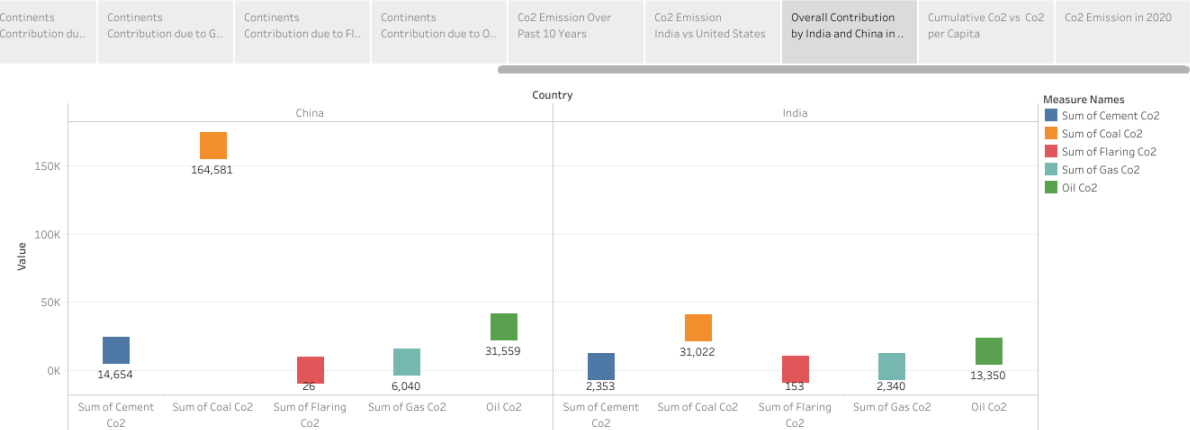
Co2 Emission Story



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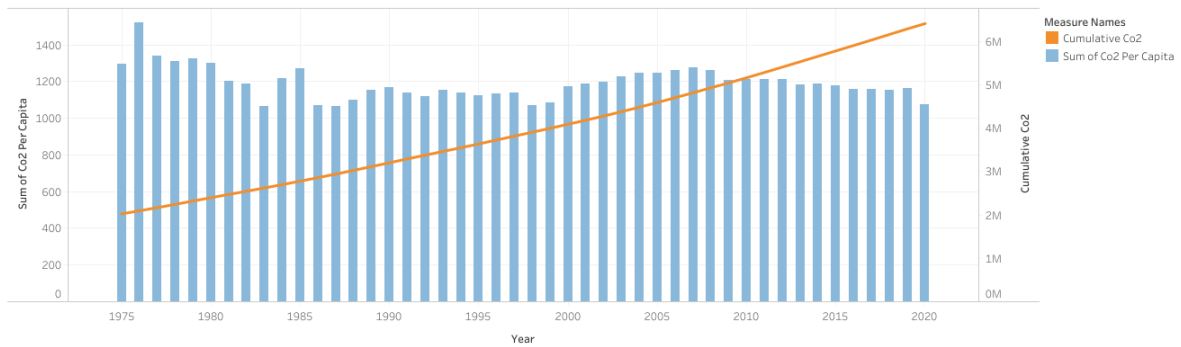


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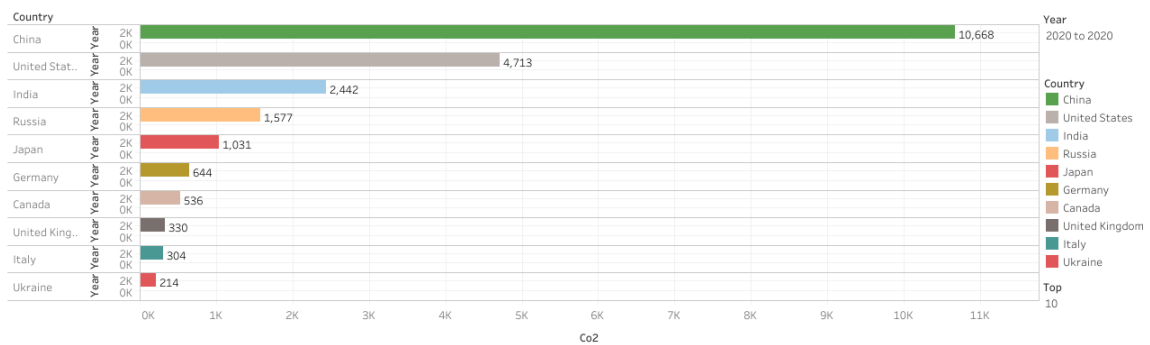
Co2 Emission Story

Continents Contribution du..	Continents Contribution due to G..	Continents Contribution due to FL..	Continents Contribution due to O..	Co2 Emission Over Past 10 Years	Co2 Emission India vs United States	Overall Contribution by India and China in ..	Cumulative Co2 vs Co2 per Capita	Co2 Emission in 2020
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Co2 Emission Story

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Co2 Emission

File

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CO2

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4 ADVANTAGES & DISADVANTAGES

Advantages

- Easy to understand
- Very compatible and more versatile
- Takes less time
- It gives more awareness

Disadvantages

- Sometimes gives wrong calculations
- Not a time dependent
- Website could not be free to students
- Not some articles, most of the articles are paid purpose

5 APPLICATIONS

Human emissions of carbon dioxide and other greenhouse gases are a primary driver of climate change and present one of the world's most pressing challenges. So, this project helps to overcome the emission of Co2 and could be helpful to know the knowledge of the emission of Co2 globally. It can access throughout the environment to reduce these change. This project helps to know about world's emission in Co2 and also the comparison chart for various countries and also the top emitting continents. It reveals the truth about Co2 emission globally all around the world.

6 CONCLUSION

The emission of Co2 can be visualised and the contents are captured by using pie chart and line chart by comparing the countries, continents by various types of Co2 using the chart table and to be characterized by the emission of Co2 and to be recognized by the manmade greenhouse gases that is to be instrumented. The final conclusion to be the emission of Co2 to be minimized and to be determined using this project based analysis.

7 FUTURE SCOPE

The scope of these project about the analytics of Co2 emission globally. They should add many and more features about the data representation and internal development in future. The scope includes product key development and extend the free trail of the project development apps about the destination.