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

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Task 1 - Specify the business problem

Global warming is one of the biggest challenges currently being faced by the human race. Due to human activities, the atmospheric concentration of carbon dioxide has been rising extensively since the Industrial Revolution and has now reached dangerous levels not seen in the last 3 million years.

Carbon emissions refer to the release of carbon dioxide, a type of greenhouse gas (GHG) that filters into the atmosphere both naturally and from human activities like deforestation, electricity consumption, and industrial manufacturing. Greenhouse gas emissions trap heat in the atmosphere, leading to several changes like global warming, deterioration of the ozone layer, and destruction of ecosystems. While gasses like methane and nitrous oxide are also harmful and contribute to our overall carbon footprint, carbon dioxide is the most prevalent. While plants and animals also emit carbon, human activity like the burning of fossil fuels, manufacturing, and transportation has been a leading cause of the sharp increase in CO2 emissions, at levels that are impossible for nature to balance on its own.

Reducing carbon emissions is important because it can help offset the dangerous and harmful effects high levels of CO2 have on our environment. 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.

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.

Analyzing 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 visualize Country wise, Region wise and Overall Co2 Emission on Earth.