Prediction of CO₂ Emissions by Country using IBM Watson Studio



Team Members

Prajwal S - 19BCE10240

Muskan Dharmani - 19BCE10227

Kashish Dharmani - 19BCE10226

INTRODUCTION



- Carbon emissions and environmental protection issues have brought pressure from the International community during Chinese Economic Development
- Recently, the Chinese Govt. announced that carbon emissions per unit of GDP would fall by 60-65% compared with 2005 and non-fossil fuel energy would account for 20% of primary energy consumption by 2030.
- Hence, forecasting energy consumption is significant to emissions reduction and upgrading energy supply in the Beijing-Tianjin-Hebei region. This study thoroughly analyzes carbon emissions' main energy sources, including coal, petrol, natural gas, and coal power in this region.

CAUSES OF CO₂ EMISSIONS



- Due to human activities, the atmospheric concentration of CO₂ has been rising extensively since the Industrial Revolution and has now reached dangerous levels not seen in the last 3 million years.
- Natural sinks remove around the same quantity of CO₂ from the atmosphere that are produced by natural sources. This had kept CO₂ levels balanced and in a safe range.
- Human sources of CO₂ emissions are much smaller than natural emissions but they have upset the natural balance that existed for many years before the influence of humans by adding extra CO₂ to the atmosphere without removing any.

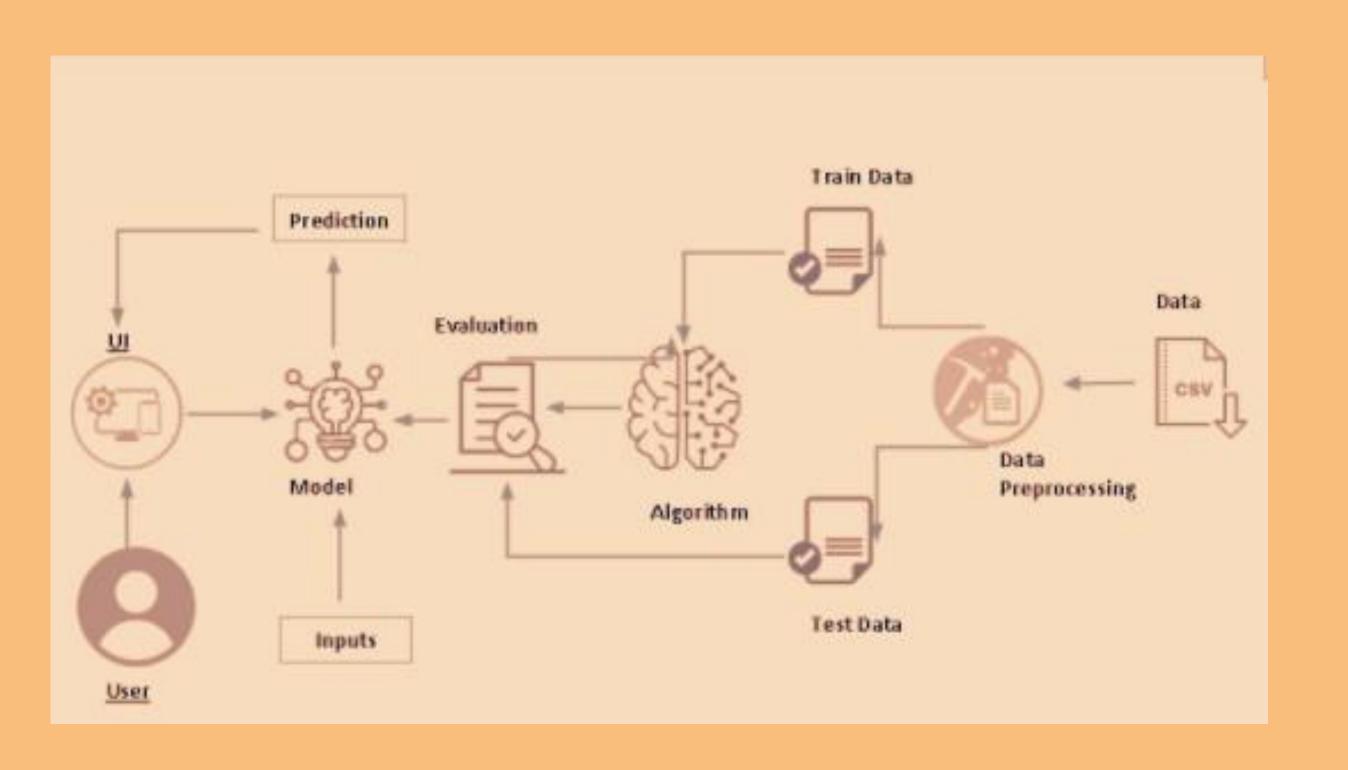
PROBLEM STATEMENT

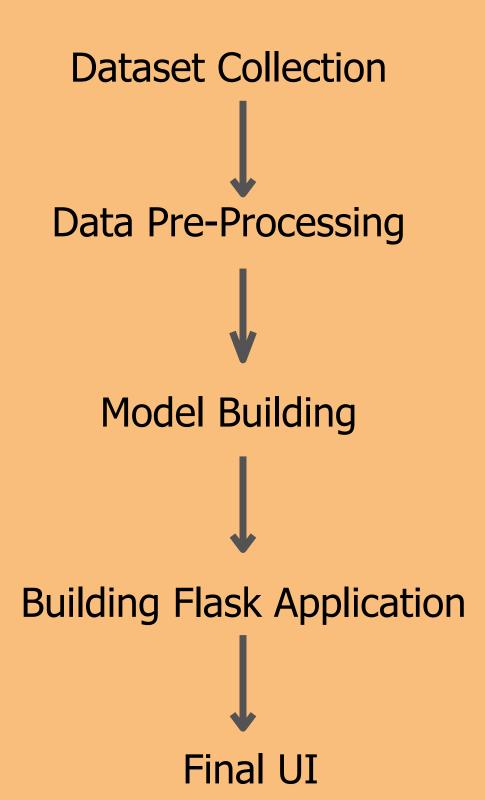


"A Machine Learning model for calculating CO₂ Emissions by country"

Due to the increasingly deteriorating environment, it is time for the government to upgrade the Energy Consumption structure by making use of Machine Learning prediction to analyze and control the CO₂ emissions in future

PROJECT ARCHITECTURE & FLOW





PROJECT UI

SmartBridge



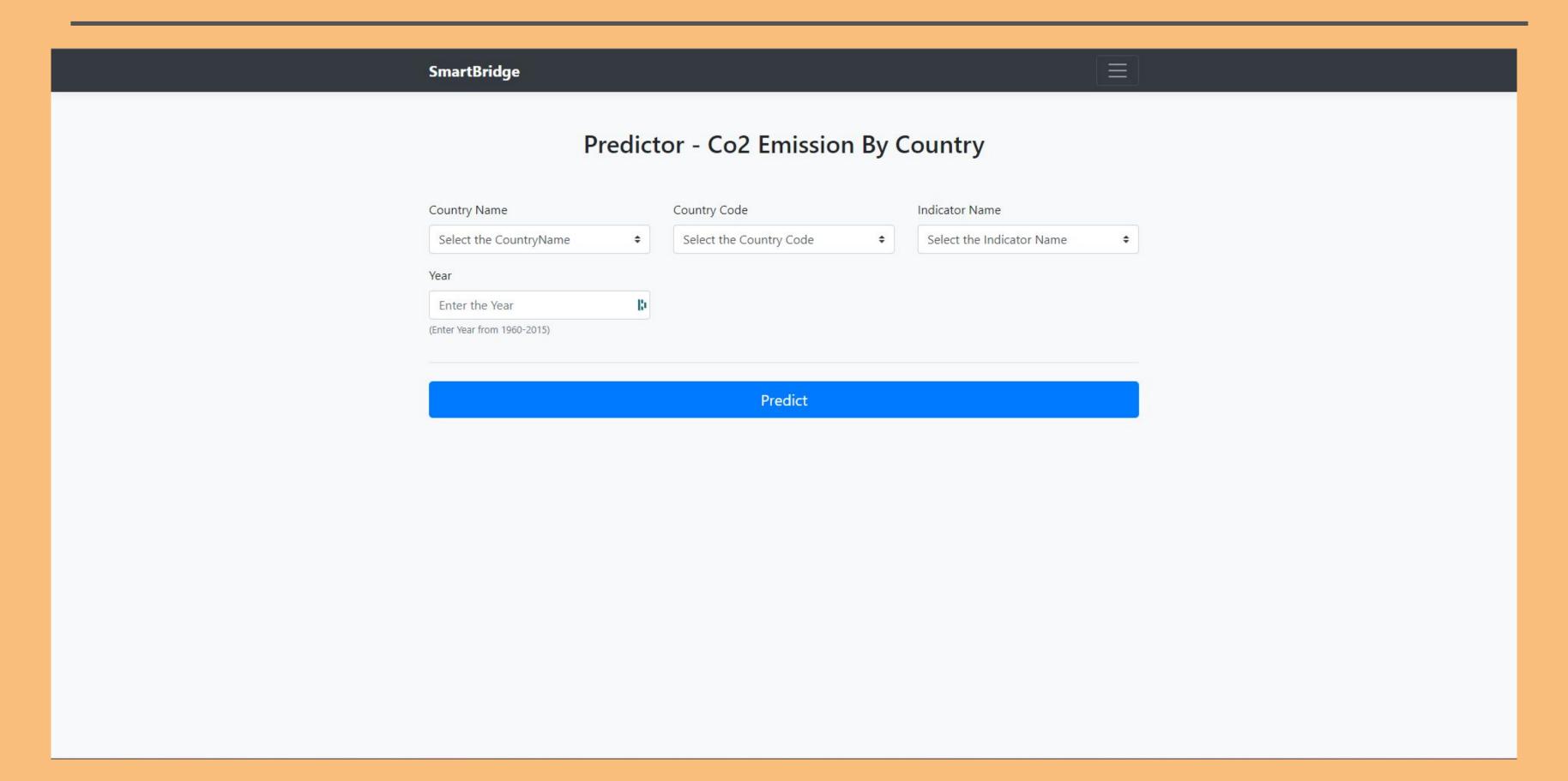
Prediction of Co2 Emissions By Country

Go to Predictor

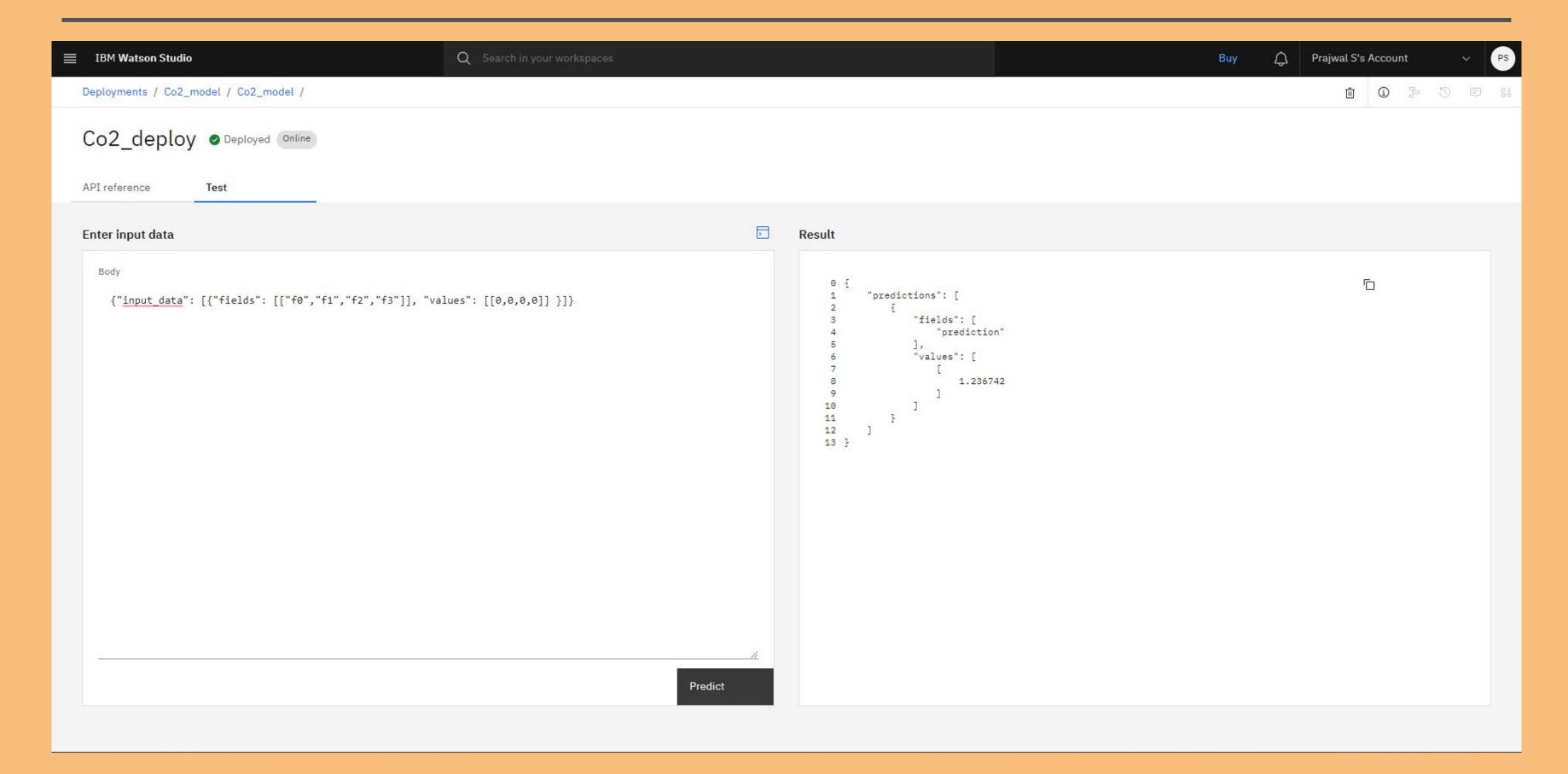
About the Project

"A Machine Learning Model for calculating CO2 emission by country,
Due to the increasingly deteriorating environment, it is time the
government to upgrade the energy consumption structure". Significantly
reducing CO2 emissions from countries will not be easy, but as we have
data of countries emission by applying Machine Learning we can extract
the important features for getting the output.

PROJECT UI



IBM WATSON DEPLOYMENT



THANKYOU