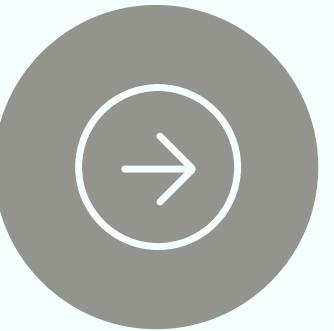


NASA

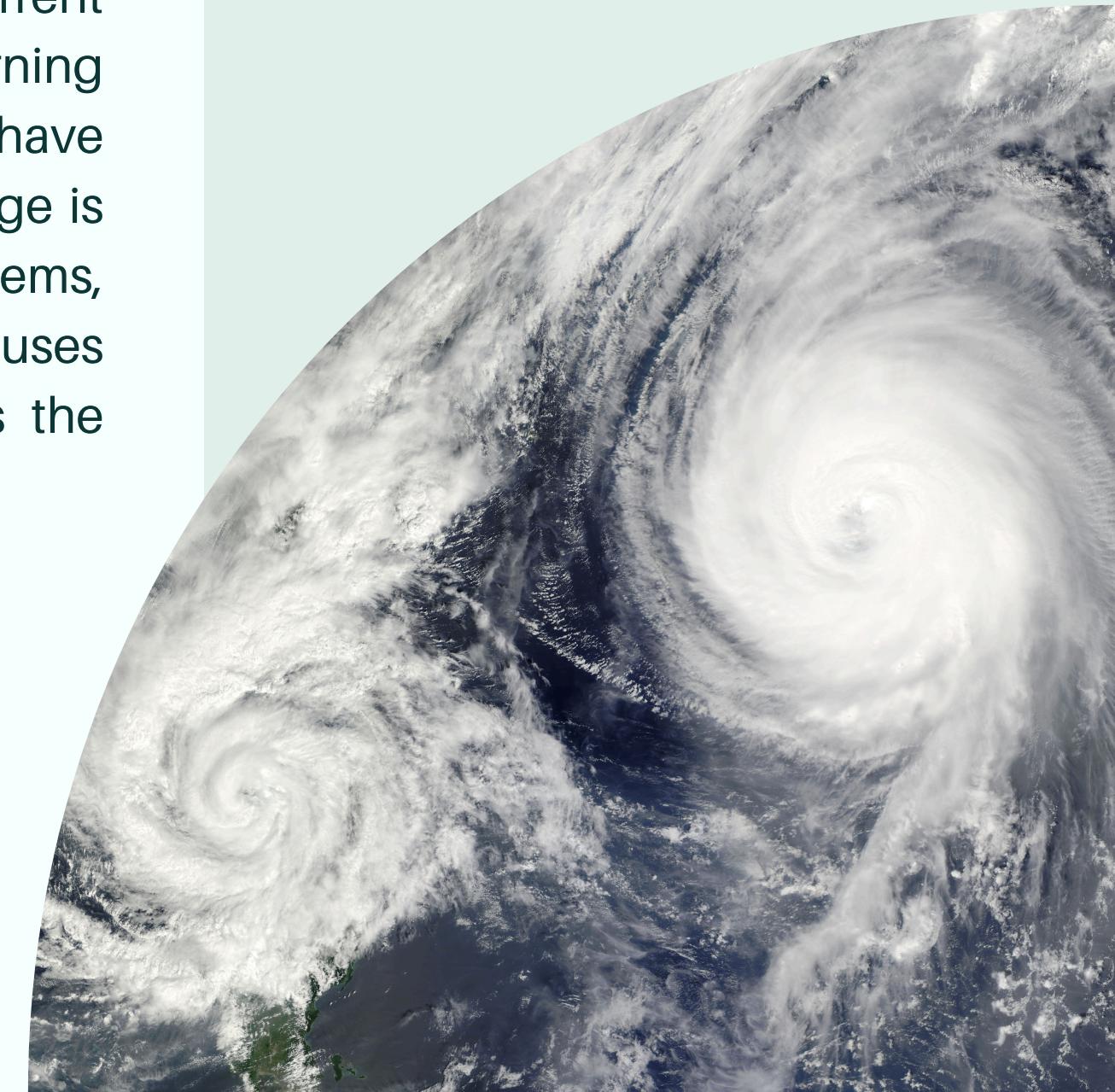
GREEN PULSE

Empowering Action for a Greener Tomorrow



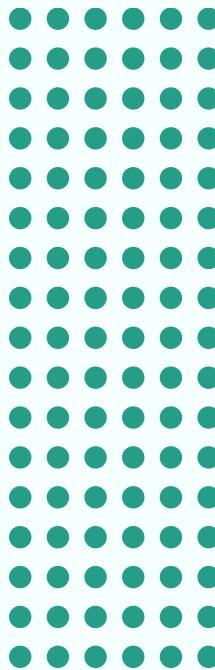
Introduction

Climate change refers to significant shifts in global temperatures and weather patterns over time. While natural factors like volcanic activity and solar radiation changes can cause climate variations, the current trends are primarily driven by human activities. These include burning fossil fuels, deforestation, and industrial processes, which have significantly increased greenhouse gas emissions. Climate change is more than just an environmental issue—it impacts ecosystems, economies, and communities worldwide. Understanding its causes and effects is essential for taking informed action to address the challenges.





Core Features



Space Agency Data Utilization

Leveraged datasets from space agencies (e.g., NASA, ESA) for accurate and up-to-date climate data



WordPress Website

We've created this website using the SOS (Save Our Species) framework, designed to raise awareness about climate change and promote conservation efforts.



Interactive Dashboard

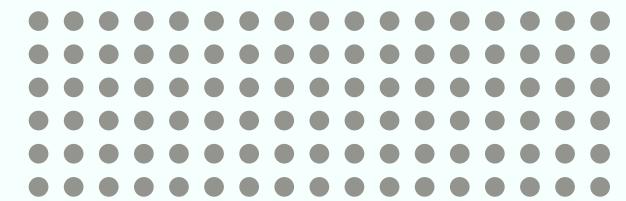
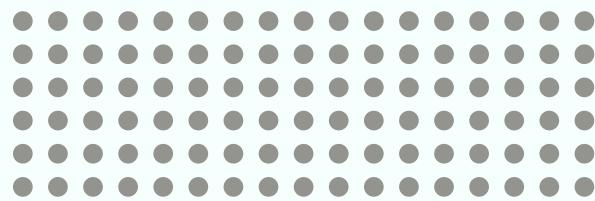
Graphs, charts, and maps showcasing trends in temperature, emissions, and other climate metrics.



SOS Framework

Created and combined multimedia elements like videos, visuals, and AI chatbots for a comprehensive learning experience

What We Developed



Website

A vibrant website showcasing educational resources on climate change.



Dashboard

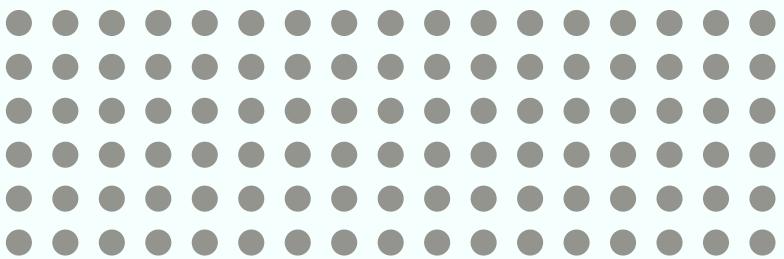
Data analysis using space agency & USA Green House datasets

Presentation

Informative slideshow to present insights on climate change.

Video

A short, engaging video explaining key climate change concepts.



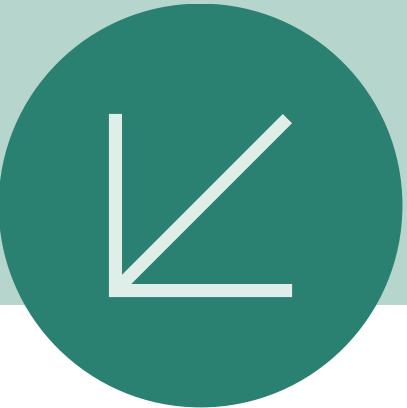
Project Links

[Google Drive](#)[Github Repo](#)

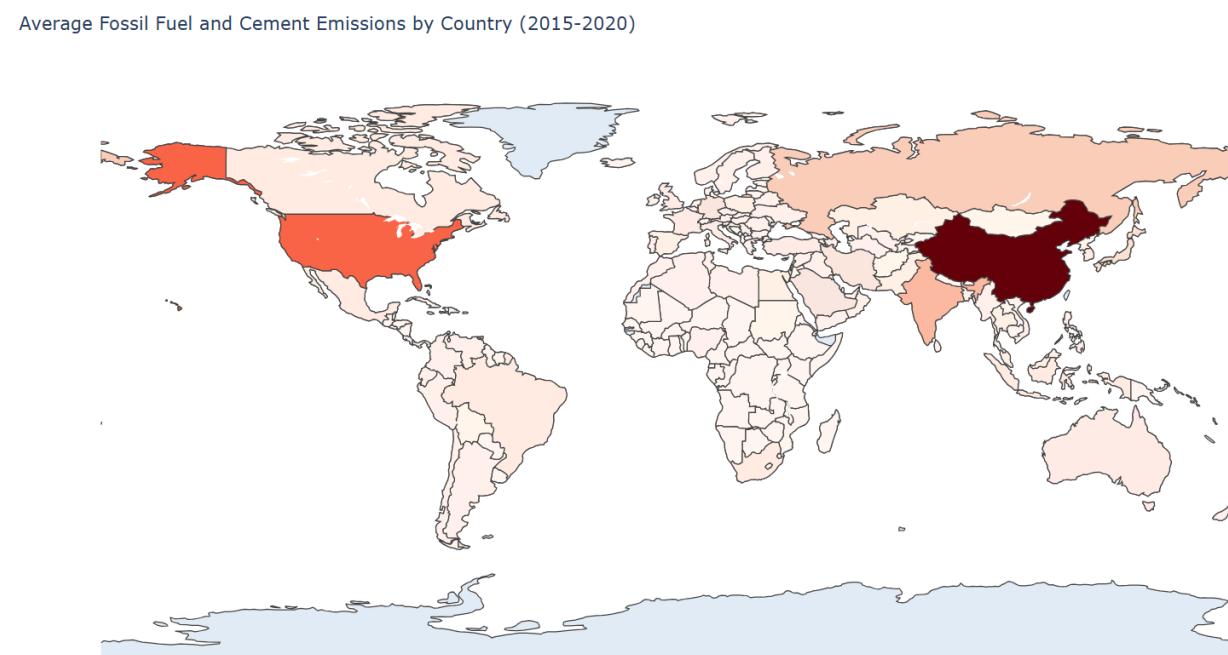
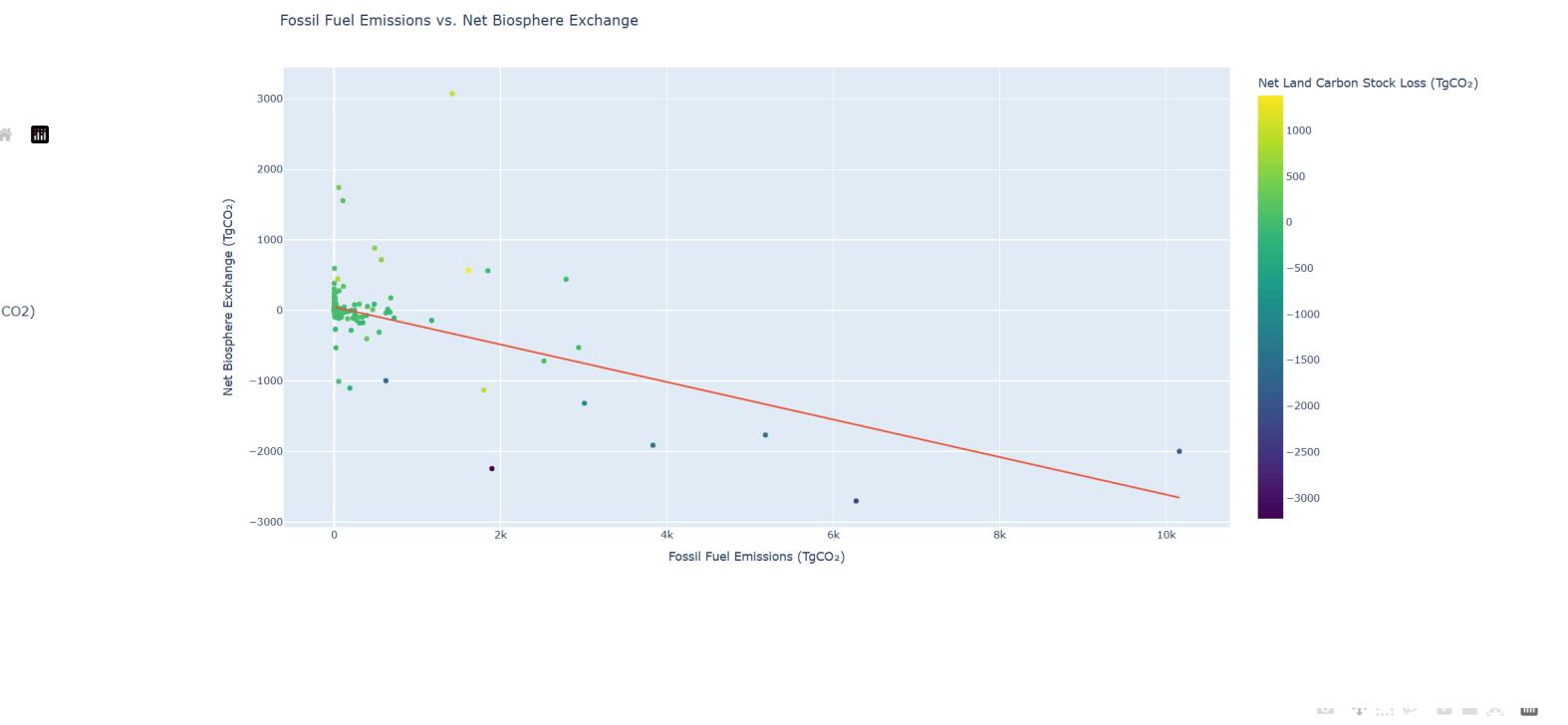
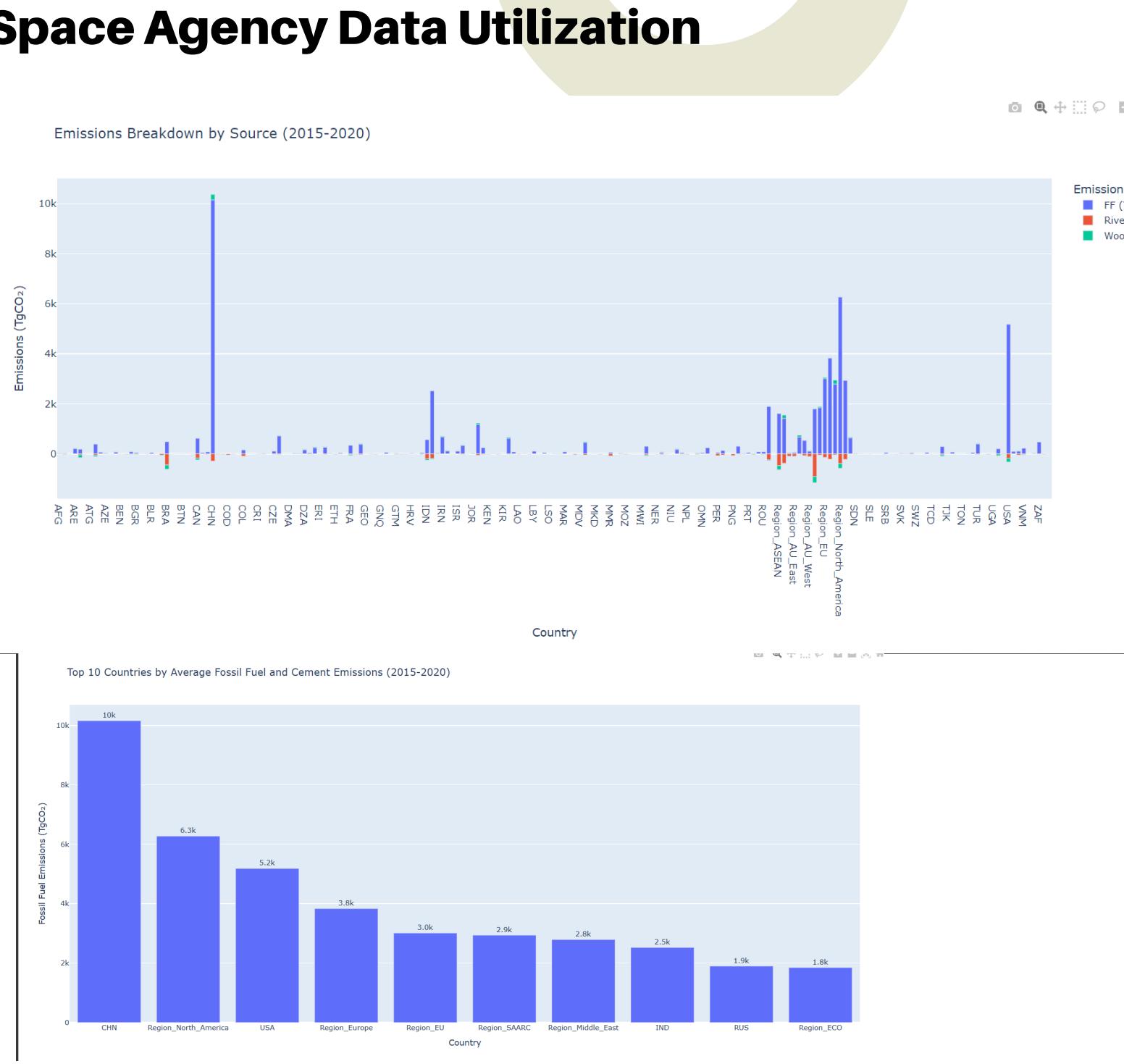
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[https://github.com/umairazmat/
Earth-Green-Pulse](https://github.com/umairazmat/
Earth-Green-Pulse)

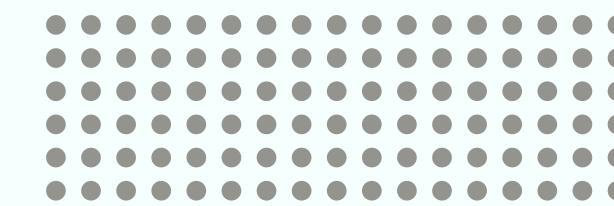
Final Project Deliverables



Space Agency Data Utilization



TECH STACK



Technologies Used



WordPress & Elementor for Website.
Python for data analysis (Jupyter Notebook)

SOS Framework

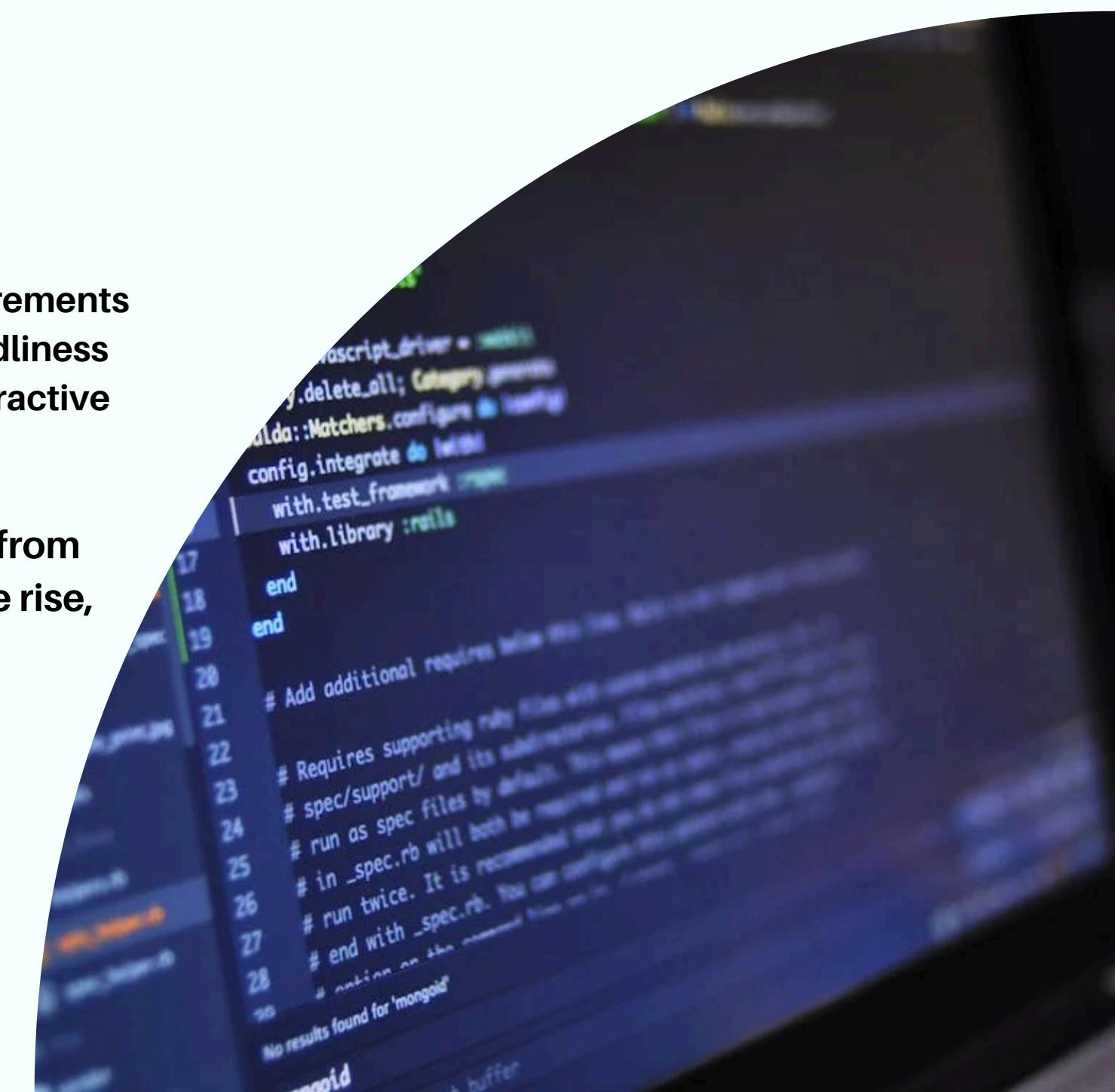


S: Survey - Identify user needs and content requirements
O: Organize - Structure information for user-friendliness
S: Synthesize - Develop content, visuals, and interactive elements

Jupyter notebook



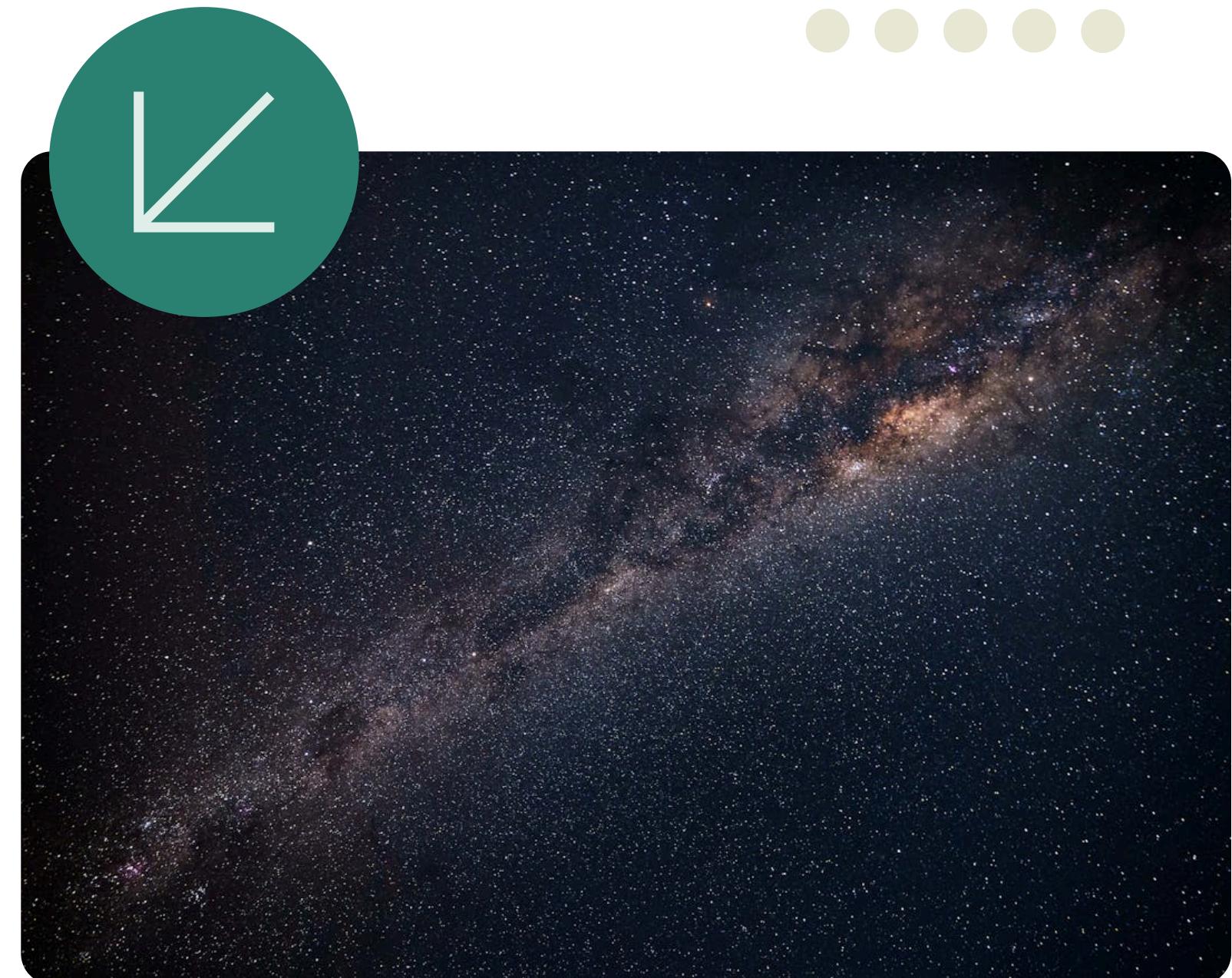
The Jupyter Notebook analyzed climate data from NASA and ESA, showing trends in temperature rise, CO₂ emissions, and polar ice cap melting



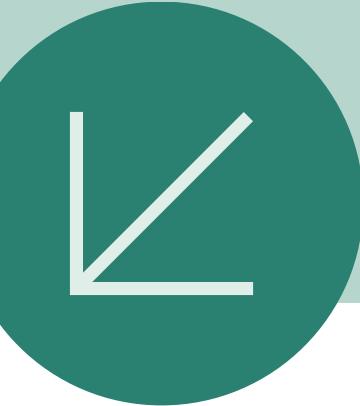


Space Agency & USA Green House Data Utilization

The project used NASA and ESA data to deliver accurate climate change information, including global temperature trends, CO₂ emissions, sea level rise, and ice cap melting. Analyzing these datasets led to visualizations that illustrate the real-world impacts of climate change, such as rising temperatures and polar ice loss. Interactive charts and visual tools enhanced user experience, making the insights more accessible and impactful.



OUR TEAM



UMAIR AZMAT
(SOFTWARE ENGINEER)



NOMAN MAZHAR
(DATA SCIENTIST)



SYED SHAHZIL
(FRONTEND DEV)



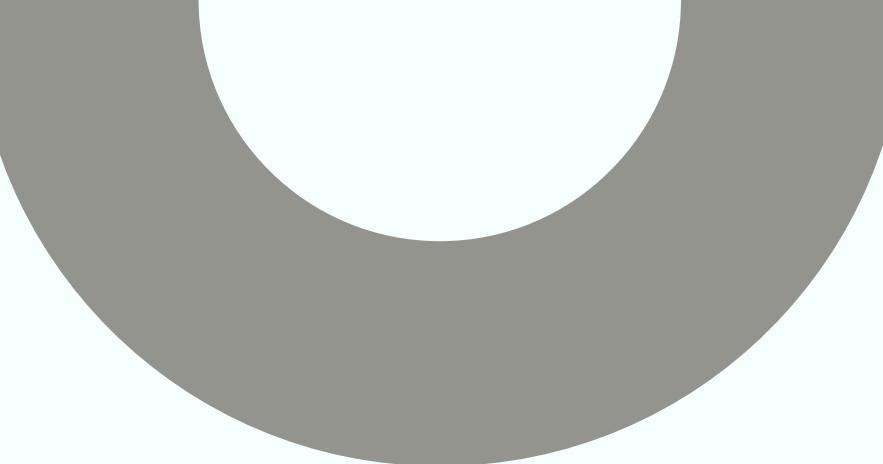
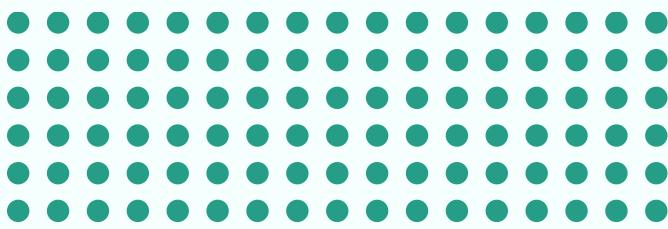
USMAN KHALIL
(FULL STACK DEV)



UZAIR AZMAT
(VIDEO EDITOR)



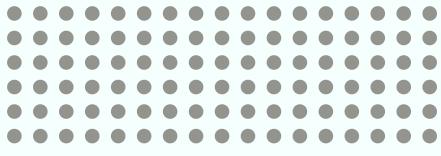
PRANAVI
(DESGINER)



Conclusion

In conclusion, the Interactive Climate Change Awareness Project successfully combines engaging content, data-driven insights, and advanced technology to educate users about climate change. By utilizing space agency data, the project empowers individuals to understand the complexities of climate change and encourages them to take meaningful action. This innovative approach not only raises awareness but also fosters a sense of responsibility towards environmental sustainability, making the information accessible and actionable for a wide audience.

THANK YOU!



Join us in making a difference !!

