

# Climate Change: Analyzing Trends and Developing Sustainable Solutions

## Project Workflow:

### Data Collection

- Gather climate data from NASA and IPCC in CSV format.

### Data Processing and Prediction

- Write code to process the collected data.
- Implement predictive models to analyze future impacts of climate change.

### Data Storage

- Upload the processed data files to an AWS S3 bucket.

### Data Visualization

- Connect AWS S3 data to Power BI.
- Use Power BI to create graphical visualizations for insights and trends.

## Objective:

- Analyze past climate trends and predict future impacts.
- Develop visual insights for better decision-making on sustainable solutions.

## Tools & Technologies:

- Data Sources: NASA, IPCC (CSV files)
- Storage & Cloud: AWS S3
- Data Processing: Python, Pandas, Machine Learning models
- Visualization: Power BI
- Version Control: Git, GitHub

## Next Steps:

- Assign team roles for data collection, coding, and visualization.
- Start with data gathering and preprocessing.
- Define the prediction model and evaluate accuracy.
- Connect the results to Power BI for visualization.
- Maintain version control using Git and push updates to GitHub regularly.