

CORPORATE CARBON RISK

IGS Summer Fellowship 2023
Sakshi Sharma

Introduction

Achievements

Architecture

Questions

THE BASICS

MOTIVATION

The goal of this project is to assess the likelihood of electric utility companies in the US achieving their carbon reduction targets. The motivation behind this project stems from the importance of reducing corporate carbon emissions and the increasing interest from investors and financial institutions in evaluating the carbon performance of companies. The project focuses on US electric utilities due to the availability of historical data and the ability to gain a detailed view into their plans.



MOTIVATION TO ACHIEVE CARBON TARGETS



ENVIRONMENTAL
SCIENCE BASED TARGET



FINANCIAL RISK



LAW ENFORCEMENT



FINANCIAL
STATUTORY BASED
TARGET

PROBLEM

PROBLEM

The challenge is to consolidate emissions data from multiple sources for all companies into a single platform, simplifying analysis and decision-making.

The goal is to empower businesses to make informed and sustainable choices, contributing to a greener future.



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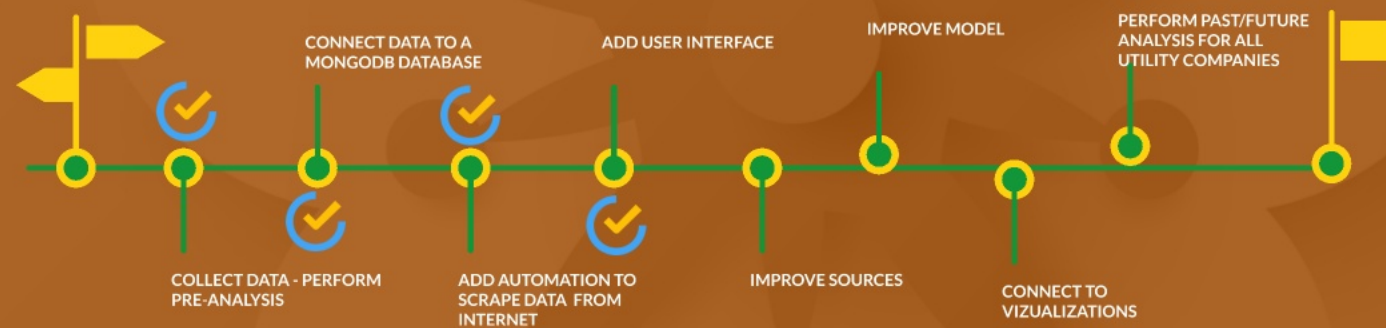
TIMELINE



ACHIEVEMENTS

- Successfully developed and deployed a robust database system.
- Implemented web scraping functionalities to gather essential company information from Yahoo Finance.
- Designed and implemented a user-friendly UI interface, allowing effortless incorporation of new data.
- Successfully deployed the website on AWS, ensuring accessibility and scalability.

ROADMAP



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Data Sources

Public Databases

like CDP, Bloomberg
Terminal



IRPs

Operating company's
Integrated Resource
Plans (For Utilities
only)

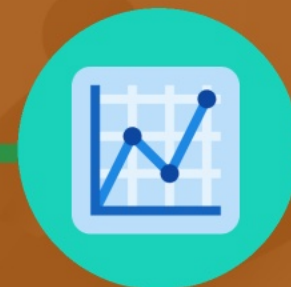
Press releases &
sustainability
reports



Investor
presentations



Data Sources



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A large, leafy tree with a thick trunk and many branches, set against a clear blue sky. The tree's leaves are green and dense, and its trunk is brown and textured. The tree is the central focus of the image.

THANK
YOU!

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