Data Analytics with Tableau

# Project Documentation

# 1. Introduction

# • Project Title:

Measuring the Pulse of Prosperity: An Index of Economic Freedom Analysis

# • Team Members:

**Team Leader :** Pujala Anjali

**Team member :** Chukkana Ganga Sri Durga

**Team member :** Pothapragada Sai Naga Sreya

**Team member :** Vatsavai Mounika Sindhu

# 2. Project Overview

# • Purpose:

To analyze and visualize the Index of Economic Freedom to understand economic prosperity across the world using Tableau.

# • Features:

* Data collection and preparation
* Database integration with Tableau
* Creation of insightful visualizations and dashboards
* Development of a web application to display Tableau visuals

# 3. Architecture

# • Frontend:

HTML, CSS, Bootstrap-based responsive UI for visual integration

# • Backend:

No backend logic (static integration with Tableau links)

# • Database:

CSV/Spreadsheet connected to Tableau as a data source

# 4. Setup Instructions

# • Prerequisites:

* Tableau Desktop
* Web browser
* HTML/CSS editor (e.g., VS Code)

# • Installation:

* Collect the dataset (Index of Economic Freedom)
* Import the dataset into Tableau
* Create visualizations and dashboards
* Publish to Tableau Public and get shareable links
* Develop HTML/CSS web app and embed published Tableau links

# 5. Folder Structure

# • Client:

Contains HTML/CSS files for the web interface

# • Server:

Not applicable for this static project

# 6. Running the Application

# • Frontend:

Open index.html in a browser to view the web application

# • Backend:

Not applicable

# 7. API Documentation

No backend APIs used in this project.

# 8. Authentication

No authentication required for this project.

# 9. User Interface

The web app includes embedded Tableau visualizations and dashboards to allow interactive exploration.

# 10. Testing

Manual testing done for web app functionality and Tableau interactions.

# 11. Screenshots or Demo

Screenshots and demo link to Tableau Public to be added.

# 12. Known Issues

* Visualizations may not load if Tableau Public link changes or is private.
* No dynamic backend logic; data updates require re-publishing.

# 13. Future Enhancements

* Add filters to Tableau dashboards for country-wise and pillar-wise exploration
* Integrate backend for dynamic data updates
* Include user feedback module on visualizations