Project Two

**READ ME:**

**Project Overview:** This project is a dashboard designed for CS-340 to display animal rescue operations data for Grazioso Salvare. The dashboard provides insights into various rescue scenarios such as Water Rescue, Mountain, Wilderness Rescue, and Disaster or Individual Tracking. It is built using JupyterDash.

**Required Functionality** – Filter options, Interactive Data Table, Dynamic Graph, Interactive Map.

**Tools Used** – Jupyter Dash – integrates Dash into Jupyter environments, Dash Leaflet -is used to create interactive maps, Plotly – is used to create interactive graphs, Dash DataTable- is used to display data in a tabular format, MongoDB – is a NoSQL database that stores data in a flexible, JSON-like format, Dash Framework – is a python framework for building web applications.

**Conclusion** – This dashboard successfully provides an interactive way to view and analyze rescue operations data. By using a combination of JupyterDash, Dash Leaflet, Ploty, and MongoDB, we created a powerful tool for visualizing and interacting with complex datasets.

**Project Setup**

Step 1: Clone the Repository

Step 2: Install Dependencies

Step 3: Database Connection

Step 4: Running the Application

Step 5: Interact with the Dashboard

**Challenges –** I had problems with connecting to the MongoData datasets, I kept having port issues and they were not working properly, I had to research why I was getting the errors and fix them.





