

# STORMS

## Project 3 – Group 14

### OVERVIEW

#### 1. Project background and description

This Project is to accomplish demonstrating data cleaning, analysis and data presentation skills. Considering our shared interest, we chose to work with Storms Dataset.

Link: [https://www.kaggle.com/christinezinkand/storms?select=storms\\_updated.csv](https://www.kaggle.com/christinezinkand/storms?select=storms_updated.csv)

#### 2. Project scope

The Scope is limited to analysis on a CSV dataset with no more than 10MB of data with only two groups in the class allowed to use the same dataset. The dataset can come from any source, however, Kaggle.com has a wealth of data and previous analysis. Five visualizations will be included, extra visualizations out of scope, yet will be considered. The visualizations will include Bar charts, Violin plots, Boxplots, Heatmap, Histograms, as well as other useful visualizations to accommodate proper presentation of the data. A color pallet will be included for consistency across the graphs. Roles and Responsibilities will be initially defined and presented in the project proposal.

#### 3. High-level requirements

- Project Proposal
- Dataset and Inspiration Links
- Visualizations
- Color Pallet Consistency across the chart
- Roles and Responsibilities
- Analysis and Presentation of the data

#### 4. Deliverables

- Project Proposal
- Data Cleaning, preparation for further presentations of the data
- The Most Likely Storms (1975-2021) Atlantic basin (i.e., North Atlantic Ocean, Gulf of Mexico, and Caribbean Sea).
- Storms dataset is a subset of the NOAA (National Oceanic and Atmospheric Administration)
- **Frequency and Intensity:**
- How often do storms occur in the Caribbean region? (Bar Chart)
- Has there been an increase or decrease in the frequency of storms over time? (Bar Chart)
- Are there trends in the intensity of storms impacting the Atlantic basin? (Line Chart)

- **Geographical Impact:**
- Which areas in the Atlantic basin are most affected by storms?
- Are there specific patterns in the paths of storms across the Caribbean Sea?
- When it comes to tropical weather systems, such as tropical depressions, tropical storms, and hurricanes, they differ in terms of their intensity and impact.
- How the storms are impacting the Atlantic basin over the period, from 1975 to 2021.
- Color Pallet Consistency across the chart

## 5. Color Palette

We choose this color palette which suits better to show the mild and intensity for the storm categories.

<https://www.color-hex.com/color-palette/114111>



## 6. Work Responsibilities

**Lindsey Krempa:** Review project proposal, working together with dataset cleaning and analysis-python files, JavaScript and working on homepage.html.

**Mason Dejesus** Review project proposal, working together with dataset cleaning and analysis-python files, JavaScript and working on Aboutus.html page.

**Hassan Aftab:** Review project proposal, working together with dataset cleaning and analysis-python files, JavaScript and working on Map.html page.

**Thripura Pakala:** Created project proposal, working together with dataset cleaning and analysis-python files, JavaScript and visualization.html page

**Eugenio Elizond:** Created the Group Git hub Project repository, Review project proposal, working together with dataset cleaning and analysis-python files, JavaScript and interactive dashboard.html page.

The team will share responsibilities of organizing the daily standups.

GitHub link: [https://github.com/eelizondo1226/project\\_03\\_group\\_14](https://github.com/eelizondo1226/project_03_group_14)

## 7. Affected business processes or systems

This is a standalone system with no other impact to other business processes or systems.

## 8. Specific exclusions from scope

Scope exclusions will be defined throughout the project as well as project risk and mitigation.

## 9. Implementation plan

Implantation and Project Presentation will be defined after work has been completed. Each person will be responsible for their own works presentation, not to exceed 15 minutes total, leaving 3 minutes per person for the presentation.