**NATURAL HAZARDS - HURRICANES**

Climate change is adding to the coast and threat of hurricanes. Stronger hurricanes pose a significant

risk to public health and human lives. Communities can improve their resilience to the impacts of

hurricanes by designing structures to be resilient to high winds and flying debris. Encouraging

residents in areas that have had historically low hurricane risk to purchase flood insurance.

**Problem statement:**

* Analyze the impact of hurricanes in the US historically.
* Explore insights

**Example:**

* Categorizing hurricanes based on storm speed
* Time of occurrence of hurricanes in a state ( preferably Florida/ any state from eastern coast )

**Objectives:**

* Obtain shapefile from the source mentioned below.
* Perform ETL
* Compute summaries and stats using GeoSpatial Queries.
* Present the data story using charts and visualizations using any tool like a simple React App/HTML/Tableau.., etc

**Data Source:** NOAA

**Reference:**

https://www.noaa.gov/education/resource-collections/weather-atmosphere/hurricanes

**Data:**

Use IBTrACS.ALL.list.v04r00.lines.zip file from

<https://www.ncei.noaa.gov/data/international-best-track-archive-for-climate-stewardship-ibtracs/v04>r00/access/shapefile/

**Dataset description:**

The dataset contains essential information needed to understand the context of the hurricanes and cyclones in the USA and its observations and issues that affect its fitness and happenings.

**Links:**

[ZeroDown\_DAVProject.ipynb - Colaboratory (google.com)](https://colab.research.google.com/drive/1ZWUjSRR-zWyas4BoOkQHWXDBnqgm94Wf?authuser=2" \l "scrollTo=4JVQfPQnASL4) (.ipynb file attached in the folder)

[DataPrep Report](C:/Users/samyu/OneDrive/Desktop/last3years/report.html) (.html file attached in the folder)

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