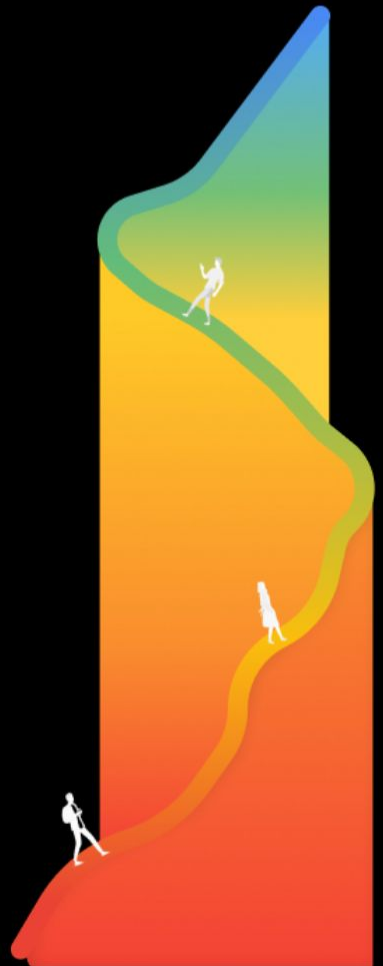

Tara ML?

A Zero-to-Hero Machine Learning Journey

Google Developer Student Clubs Philippines

Identifying Vehicular Accident Hotspots in Metro Manila Using DBSCAN

Amyr Edmar L. Francisco

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The problem being addressed:

“Help local authorities identify traffic accident hotspots in Metro Manila to better plan for safety measures in these areas.”

The data used to train the model:

Manila Traffic Incident Data scraped from MMDA's official twitter account.

Only a subset of this data – where the type of incident is vehicular accident – is used.

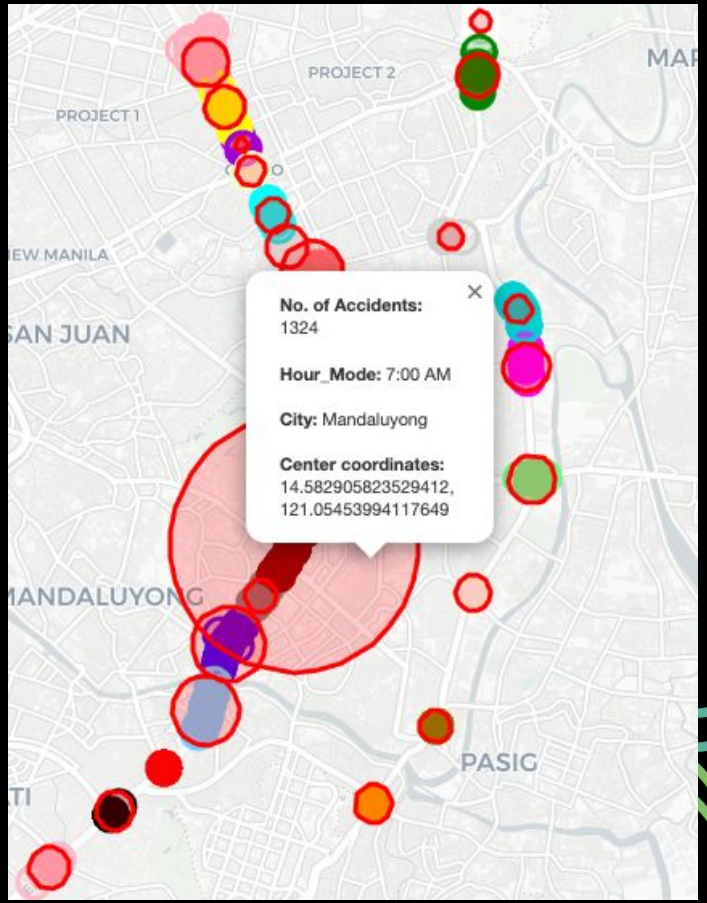
The proposed ML solution:

“Identifying Vehicular Accident Hotspots in Metro Manila Using DBSCAN”

The result of the model:

An *interactive map* of Metro Manila that shows the vehicular accident hotspots and additional information about each hotspot.

https://nbviewer.org/github/amyr11/Clustering-Vehicular-Accidents-in-Metro-Manila/blob/main/notebooks/3_modelling.ipynb



Impact of the solution:

By identifying vehicular accident hotspots in Metro Manila, local authorities can:

- **Target resources more effectively** by identifying accident hotspots.
- **Prioritize safety improvements** in areas with higher frequency of accidents.
- **Develop targeted safety campaigns** based on characteristics of accident hotspots.
- **Consider infrastructure improvements** to reduce likelihood of certain types of accidents in specific areas.