

# STATISTICAL COMPARISON

## APPLICATION FOR USA

### ACCIDENTS BETWEEN THE

### YEAR 2019 & 2020(COVID YEAR)

Question/need:

- What is the framing question of your analysis, or the purpose of the model/system you plan to build?
  - **What's the comparison in data received between Usa accidents between the year 2019 and 2020 which covid 19 was happening ?**
- Who benefits from exploring this question or building this model/system?
  - **Department of transportation of states all over the Usa and also general public.**

Data Description:

- What dataset(s) do you plan to use, and how will you obtain the data?
  - **Kaggle data of USA accidents 2016-2010**
- What is an individual sample/unit of analysis in this project? What characteristics/features do you expect to work with?
  - **Each data is the accident recorded in the Usa including features as below:**

**'ID','Severity','Start Time','End Time','Start Lat','Start Lng','End Lat','End Lng','Distance(mi)','Description','Number','Street','Side','City','County','State','Zipcode','Country','Timezone','Airport Code','Weather Timestamp','Temperature(F)','Wind Chill(F)','Humidity(%)','Pressure(in)','Visibility(mi)','Wind Direction','Wind Speed(mph)','Precipitation(in)','Weather Condition','Amenity','Bump','Crossing','Give Way','Junction','No Exit','Railway','Roundabout','Station','Stop','Traffic Calming','Traffic Signal','Turning Loop','Sunrise Sunset','Civil Twilight','Nautical Twilight','Astronomical Twilight'**

- If modeling, what will you predict as your target?
  - **Extra: Classification of accident severity between severity classes 1,2,3,4**

Tools:

- How do you intend to meet the tools requirement of the project?
  - **Pandas, SQL or Spark, Visual Studio, Streamlit,**
- Are you planning in advance to need or use additional tools beyond those required?
  - **Maybe, but unsure still.**

MVP Goal:

- What would a minimum viable product (MVP) look like for this project?
  - **MVP: Statistical comparison of accidents all around Usa between a normal yer like 2019 and during a pandemic in the year2020.**