



USCAR ACCIDENTS

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An Overlook of Car Accidents in the US

➤ Humanitarian sight:

- Average number of car accidents in the U.S. every year is 6 million.
- More than 90 people die in car accidents everyday (~30000 each year).
- 3 million people in the U.S. are injured every year in car accidents.
- Around 2 million drivers in car accidents experience permanent injuries every year.
- The total cost of car accidents (including the costs of societal harms) is about **\$871 billion** annually in U.S.
- \$44 billion in U.S. car accident costs (work lost cost, medical care) .

➤ Economical sight:

- Insurance claims (property aspect)
- Healthcare cost

➤ Goal of Project:

- Identify areas of high accident rates (city, street, long-lat, etc.).
- Find factors that affect accidents (weather conditions, wind direction/speed etc).
- Predict accidents, study the impact of precipitation or other environmental stimuli on accident occurrence.

➤ End Users:

- Drivers
- Insurance companies
- Government

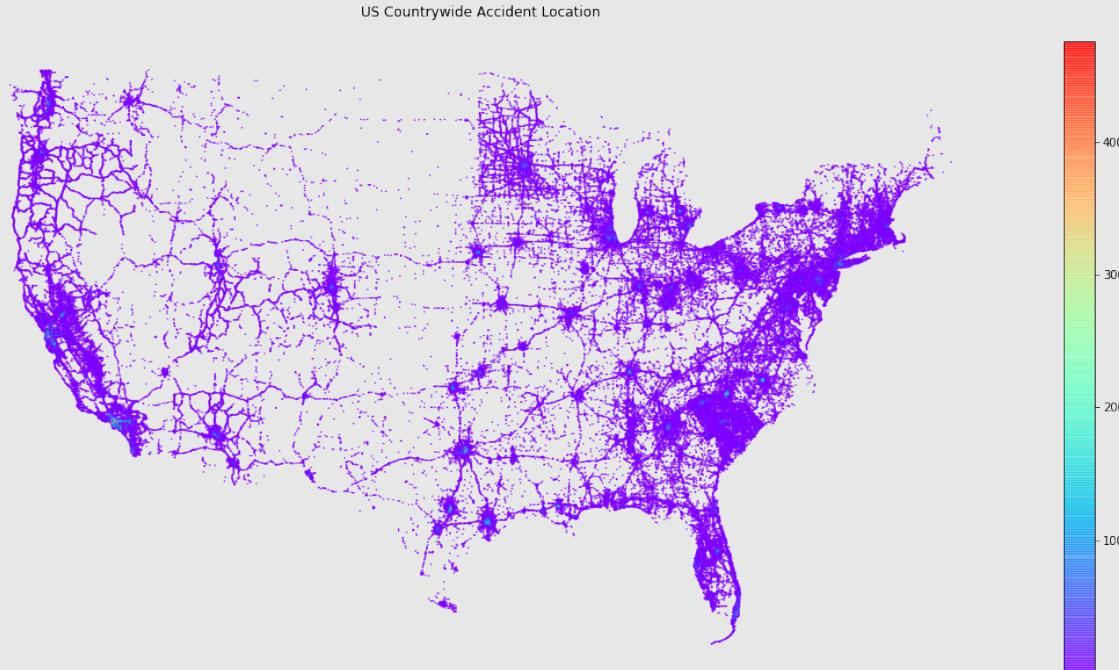
Graphical illustration of US Car Accidents

➤ Summary of Data:

- Countrywide traffic accident dataset (49 states of the US)
- Collected from February 2016 to December 2019
- Currently ~3.0 million accident records

➤ Summary of work:

- Python
- Analyzed ~3.0 million data
- EDA & Visualizations



Weather condition

Temperature

Humidity, wind speed/dir. etc

Traffic signal, stop sign etc

Turning loop, railway

Crossing, junction, bump

City, state, zipcode etc.

Latitude / Longitude

