Data Tasks (6) Kernels (35) Discussion (2) Activity Metadata Download (819 MB) New Notebook

Usability 10.0 License CC BY-NC-SA 4.0 Tags geospatial analysis, tabular data, vehicle codes and driving laws

Description

Description

This is a countrywide traffic accident dataset, which covers **49 states of the United States**. The data is collected from **February 2016 to March 2019**, using several data providers, including two APIs which provide streaming traffic event data. These APIs broadcast traffic events captured by a variety of entities, such as the US and state departments of transportation, law enforcement agencies, traffic cameras, and traffic sensors within the road-networks. Currently, there are about **2.25 million** accident records in this dataset. Check here to learn more about this dataset.

Acknowledgements

Please cite the following papers if you use this dataset:

- Moosavi, Sobhan, Mohammad Hossein Samavatian, Srinivasan Parthasarathy, and Rajiv Ramnath. "A Countrywide Traffic Accident Dataset.", 2019.
- Moosavi, Sobhan, Mohammad Hossein Samavatian, Srinivasan Parthasarathy, Radu Teodorescu, and Rajiv Ramnath. "Accident Risk Prediction based on Heterogeneous Sparse Data: New Dataset and Insights." In proceedings of the 27th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, ACM, 2019.

Content

This data has been collected in real-time, using multiple Traffic APIs. Currently, it contains data which is collected from February 2016 to March 2019 for the Contiguous United States. Check here to learn more about this dataset.

Inspiration

US-Accidents can be used for numerous applications such as real-time accident prediction, studying accident hotspot locations, casualty analysis and extracting cause and effect rules to predict accidents, or studying the impact of precipitation or other environmental stimuli on accident occurrence.

Usage Policy and Legal Disclaimer

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Data (819 MB)

Data Sources

US_Accidents_Ma... 49 columns

About this file

This is a countrywide traffic accident dataset, which covers 49 states of the United States. The data is continuously being collected from February 2016, using several data providers, including two APIs which provide streaming traffic event data. Check here to learn more about this dataset.

Columns

- A ID This is a unique identifier of the accident record.
- A Source Indicates source of the accident report (i.e. the API which reported the accident.).
- # TMC A traffic accident may have a Traffic Message Channel (TMC) code which provides more detailed description of the event.
- # Severity Shows the severity of the

US_Accidents_May19.csv (819.25 MB) 20 of 49 columns Views

	ID This is a unique identifier of the accident record.	Source Indicates source of the accident report (i.e. the API which reported the accident.).	TMC A traffic accident may have a Traffic Message Channel (TMC) code which provides more detailed description of the	Severity Shows the severity of the accident, a number between 1 and 4, where 1 indicates the least impact on traffic (i.e., short delay	Start_Time Shows start time of the accident in local time zone.	End_ Shows e accident zone.
	2243939 unique values	MapQuest 76% Bing 23% Other (1) 1%			9Mar15 31Mar19	8Feb16
10	A-10	MapQuest	201.0	3	2016-02-08 08:10:04	2016-02
11	A-11	MapQuest	201.0	3	2016-02-08 08:14:42	2016-02
12	A-12	MapQuest	241.0	3	2016-02-08 08:21:27	2016-02
13	A-13	MapQuest	201.0	2	2016-02-08 08:36:34	2016-02