# Traffic Accident Dataset

## Description

This dataset contains detailed records of traffic accidents reported by the \*\*Metro Police Department of Nashville\*\*, including vehicle counts, injuries, fatalities, and contributing factors. The data focuses on accidents within the Nashville metropolitan area and provides insights into accident trends, including weather conditions, hit-and-run cases, and illumination conditions.

## Data Source

The dataset was obtained from traffic accident reports compiled by the \*\*Metro Police Department of Nashville\*\*.

## Dataset Overview

• Total Records: 245,286  
• Total Columns: 27  
• File Format: CSV

## Columns and Descriptions

|  |  |
| --- | --- |
| Column Name | Description |
| Accident Number | Unique identifier for each accident |
| Date and Time | Timestamp of when the accident occurred |
| Number of Motor Vehicles | Number of vehicles involved |
| Number of Injuries | Count of people injured in the accident |
| Number of Fatalities | Count of deaths resulting from the accident |
| Property Damage | Estimated property damage cost |
| Hit and Run | Whether the accident was a hit-and-run (Yes/No) |
| Collision Type Description | Type of collision (e.g., rear-end, head-on) |
| Weather Description | Weather conditions at the time of the accident |
| Illumination Description | Lighting conditions (daylight, night, streetlights) |
| Street Address | Location of the accident |
| City | City where the accident occurred |
| State | State where the accident occurred |
| Precinct | Law enforcement precinct reporting the accident |
| Lat, Long | Latitude and Longitude coordinates of the accident |
| Harmful Codes | Codes for harmful events related to the accident |
| Harmful Descriptions | Descriptions of harmful events (e.g., vehicle overturn) |
| ObjectId | Internal object ID for the record |
| Zip Code | Zip code of the accident location |
| RPA | Regional Planning Authority information |
| Weather | Additional weather details |
| IlluACCIDEmination | Additional illumination details |
| Collision Type | Broad category of collision type |
| Reporting Officer | Name or ID of the reporting officer |
| x, y | Additional coordinates for mapping purposes |

## Usage

This dataset can be used for:  
- \*\*Accident trend analysis\*\* (pre-COVID vs. post-COVID comparisons)  
- \*\*Traffic safety research\*\* and identifying high-risk areas  
- \*\*Predictive modeling\*\* for accident likelihood based on weather, time, and location  
- \*\*Policy-making\*\* for road safety improvements in Nashville

## License

This dataset is provided for research and analysis purposes. Please check local regulations if using for commercial purposes.

## Contact

For any questions regarding this dataset, please contact [your email or organization name].