

ROAD TRAFFIC ACCIDENT DATA ANALYSIS AND VISUALIZATION IN R

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ABSTRACT

The paper reviews, road traffic accident data analysis and visualization in R programming environment. The aim is to show how to extract meaningful data from the raw database and visualize it. The results revealed that hour wise, day wise, month wise and year wise plots allowed observing how road traffic accidents change in timescale. Two types of road traffic accident mainly occurred, such as type 1 (collision) and type 5 (collision with pedestrian). Both types of road traffic accidents happened in similar magnitudes across all timescales. Visualization and data analysis of road traffic accidents led to make conclusions which would assist reduce the number of accidents.

KEYWORDS: Road Traffic Accidents, Data Analysis, Visualization & R

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