

ACCIDENT LOCATIONS ON INDIAN ROADS (5th July 2023)

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ABSTRACT

The spatial distribution of accident locations in India is investigated in this study using Geographic Information System (GIS) software and data from the Ministry of Road Transport and Highways. The most recent accident statistics, which includes data through 2021, are used in the analysis. In order to conduct the research, detailed accident data from MoRTH must be obtained. This data contains details such accident type, severity, time of occurrence, and geographic locations. GIS software uses these coordinates to create visual representations and do spatial analysis. This study examines accident locations, patterns, and hotspot areas across India in order to provide useful insights into the spatial distribution of road accidents. It makes an effort to pinpoint high-risk areas, substantial accident-prone areas, and key national causes of traffic accidents. The results of this study may be used to design effective strategies for reducing accidents and improving road safety by policymakers, law enforcement personnel, and urban planners. By locating areas with a high accident prevalence, targeted actions can be carried out to lower accidents, reduce injuries, and enhance overall road safety.

Keywords: accident locations, India, MoRTH, GIS software, spatial distribution, hotspot areas, road safety, accident prevention.

