

Accident Locations on Indian Roads

DATE: 23.06.2023

Abstract:

The project aims to analyze accident locations on Indian roads using geospatial techniques and provide insights into the factors contributing to accidents. By leveraging Geographic Information System (GIS) tools, a comprehensive study of accident data collected from reliable sources was conducted. The project focused on understanding the spatial patterns, high-risk areas, and common causes of accidents across different regions in India.

The data collection phase involved sourcing accident data from government reports, police records, and relevant databases. Challenges related to data quality and availability were addressed, ensuring the reliability of the collected information. The collected dataset was then subjected to rigorous analysis and visualization using GIS software.

Introduction:

The project aims to analyze accident locations on Indian roads using GIS tools and techniques. By leveraging spatial data and statistical analysis the projects seeks to provide a comprehensive understanding of accident hotspots and contributing factors thereby aiding in the development of targeted road safety interventions

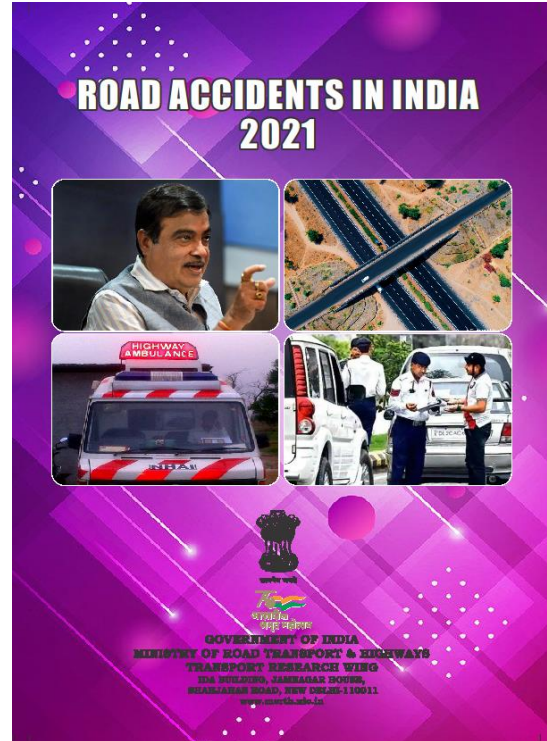
Motivation:

- India ranks first in the world for the number of accidents and lives lost on the roads
- India only 1% of vehicles in the world but has 11% of accidents in the world
- Uttar Pradesh had the first highest number of fatalities resulting from road accidents on national highways
- The Tamil Naadu had the second highest number of fatalities resulting from road accidents on national highways according to 2021 road accident data

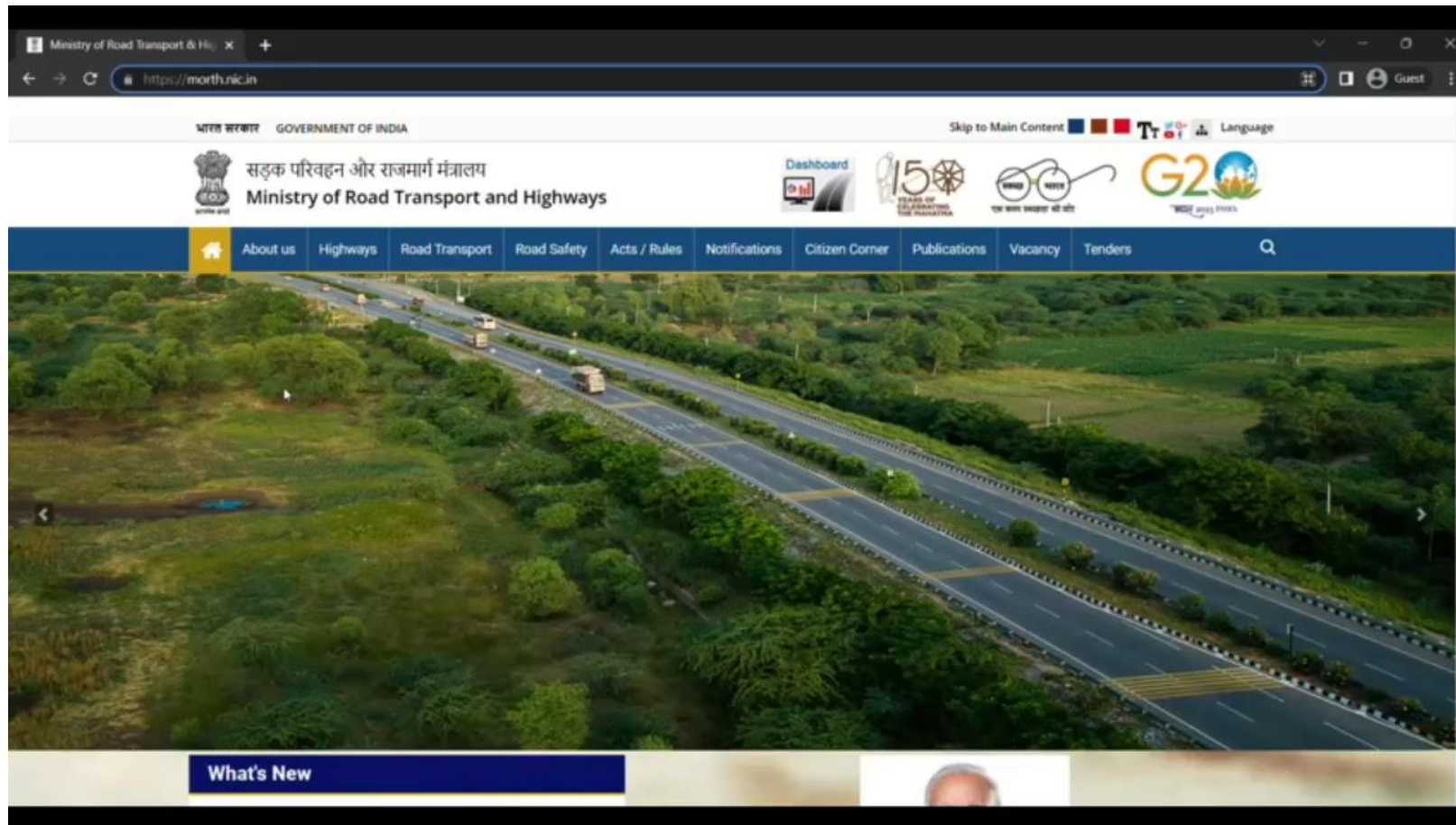
Data sources:

Government website: <https://morth.nic.in/road-accident-in-india>

Road accident report on 2021:



Work:



Outcome:

