Blackspot App: Accident and Crime Spot Detection using Android

Akshada Khairnar, Shravani Modak, Sanjana Shejwalkar

Department of Computer Engineering, Guru Gobind Singh Polytechnic, Nashik, India

Abstract: *Road and traffic is most important issue not only for Indian government but also for common people. Mostly, it is found that road Accident & Crime happening are more frequent at certain specific locations i.e., black spot. The analysis of these black spot can help in identifying certain road Accident & Crime factor that make a road Accident & Crime to occur frequently in those locations. In this project we apply statistics analysis and data mining algorithms on the Fatal Accident & Crime dataset as an attempt to address this problem. Association rule mining is one of the popular data mining techniques that identify the causes of Accident & Crime of road Accident & Crime. In this project, we first applied éclat algorithm to group the Accident & Crime locations into three level, first level, second level and third level Accident & Crime location. The rules show different factors associated with road Accident & Crimes at different locations. For all this we provide Accident & Crime data that are issue from Nashik city commissioner office. Safety driving suggestions will made based on Accident & Crime data, association rules, classification model, and clusters obtained.*

Keywords: Eclat algorithm, Clustering, Classification, Association, GPS Tracking, Road way fatal Accident & Crime.

REFERENCES

[1] Analysis of Road Traffic and Fatal Accident & Crime Detection Using Data Mining, June,2017, IEEE Computer Society.

[2] Data Mining Approach to Characterize Accident & Crime location, February 2016, Open Access at Springler.com.

[3] Data Mining Approach to Characterize Road Accident in India, January,2015, IEEE Paper Publication.

[4] A review on road Accident & Crime in traffic system using data mining techniques, January 2016, international journal of science and research (IJSR).

[5] An overview Of Data Mining in Road Traffic and Accident & Crime Analysis, February 2009, Journal of Computer Application.

[6] Improvement of eclat algorithm based on supporting frequent item set mining, September 2014, journal of computer vol.9.