ROAD SAFETY PREDICTION USING MLA

A PROJECT REPORT

Submitted by

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in partial fulfillment for the award of the degree

of

BACHELOR OF TECHNOLOGY

IN

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BIT CAMPUS, TIRUCHIRAPPALLI 620024

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BONAFIDE CERTIFICATE

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DECLARATION

We hereby declare that the work entitled "**ROAD SAFETY PREDICTION USING MLA**" is submitted in partial fulfillment of the requirement for the award of the degree in B.TECH, in University college of Engineering, BIT Campus, Anna University, Tiruchirappalli. It is the record of our own work carried out during the academic year 2018-2019 under the supervision and guidance of **Dr. D. ASIR ANTONY GNANA SINGH**, Teaching Fellow, Department of Computer Science and Engineering, University college of Engineering, BIT Campus, Anna University, Tiruchirappalli. The extent and source of information are derived from the existing literature and have been indicated through the dissertation at the appropriate places.

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I certify that the declaration made above by the candidates is true

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ABSTRACT

Every year, there are lot of accidents happening in our country. This leads to increase the fatality rate and lot of injuries to a people. This road accidents may not be recovered completely, but it can be reduced. This may be occurred due to various factors such as time, driver's carelessness, weather conditions, traffic, and speed of the vehicles. Machine learning plays a significant role in pattern recognition and prediction. Moreover, this project uses machine learning approach to implement a road safety predict system by considering the various factors including road surface, number of vehicles, accident date, time, weather condition, and casualty. In order to improve the accuracy of the proposed system, the feature selection method is incorporated with the proposed system. The proposed system is tested on various benchmark datasets and it is identified that the proposed system produces better accuracy compared to other method compared.

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LIST OF ABBREVIATION

S.NO	ABBREVIATION	EXPANSION
1	J48	Decision Tree
2	One R	One Rule
3	K-Star	Korea Superconducting Tokamak Advance Research
4	NB	Naive Bayes
5	SMO	Sequential Minimal Optimization
6	TP Rate	True Positive Rate
7	FP Rate	False Positive Rate
8	MCC	Matthews Correlation Coefficient
9	ROC	Receiver Operating System
10	PRC	Precision Recall
11	WEKA	Waikaato Environment for Knowledge Analysis

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