

Study and Analysis of the Factors Affecting Road Safety Using Decision Tree Algorithms

Authors : Naina Mahajan, Bikram Pal Kaur

Abstract : The purpose of traffic accident analysis is to find the possible causes of an accident. Road accidents cannot be totally prevented but by suitable traffic engineering and management the accident rate can be reduced to a certain extent. This paper discusses the classification techniques C4.5 and ID3 using the WEKA Data mining tool. These techniques use on the NH (National highway) dataset. With the C4.5 and ID3 technique it gives best results and high accuracy with less computation time and error rate.

Keywords : C4.5, ID3, NH(National highway), WEKA data mining tool

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