Prediction of severity of road accidents using multiclass classification

Business understanding/Introduction

We often see road accidents with variable severity including no injuries to minor injuries to property damages to fatalities. Road accidents severity can be influenced by various factors including personal behaviors (e.g. under the drugs influence-DUI, speeding), environmental conditions (e.g. rain), and technological factors (e.g. car breakdown). Hence, it is important to understand and predict the severity of road accidents and their influencing factors to help people and authorities to adapt precautionary measures to avoid the risk. This will also help authorities to minimize the costs associate with road accidents.