How Many Fatal Car Crashes Does Human Error Really Cause?

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Abstract

Our project is a risk analysis over fatal car accidents. We are interested in analysing factors relating the driver, such as DUI. An suitable option for this topic is the FARS 2021 National dataset of fatal accidents in the United States by the National Highway Traffic Safety Administration (NHTSA). The dataset can be downloaded here. Our motivation is the relevance of human driver error in the discussion surrounding self-driving cars and the future of transportation. Initially we must select which out of the many given aspects of the data are the most descriptive and useful for our purposes. Then we will examine the prevalence of certain attributes, such as DUI, and correlate them with the frequency of accidents. We are expecting to find quantitative link between aspects of human driver error and fatal car accidents.

1. Contribution Plan

Everyone in our group will in some capacity be involved in every stage of the project. We foresee challenges of data processing, analysis and visualisation, which we will divide as needed.

References

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