**Accident Prediction using Python**

**ABSTRACT**

It is very difficult to cope up with a sudden loss of life of a near and dear one. Moreover, if the person who died was the bread earner, then the lives of the dependents turn topsy-turvy. One of the major reasons for sudden or unexpected deaths are road accidents. The irony is that, most of the road accidents could have easily been avoided. Accident Prediction is a data science project previously implemented in R, now being extended using Python to improve the accuracy by applying a better algorithm. The main motive of this project is to warn people about upcoming accidents so that the fatality rate due to road accidents can be reduced.

A dataset of accidents took place between 2005 and 2015 tabulated with various factors which caused each accident is considered as the base for this project. The dataset consists of more than 20 Lakh rows and up to 45 columns. The main part of the project is analyzing such a huge dataset by filtering and visualizing to get some conclusions using which we can predict the accident probability using machine learning by taking a few inputs. This project can be used in implementation of automobile automation which takes input from Google Location API dynamically and shows the prediction value with respect to the current location.

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