**Just Code It – Problem Statement 4**

**Driver Profiling and Accident Hotspot Prediction**

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The datasets of Bangalore and Ahmedabad contain information such as coordinates, speed, and the location name besides the vehicular movements as observed. Given that anyone on this planet uses roads, it comes with intuition that additional information could be beneficial to build a robust prediction model. To do so, we aim to expand our dataset by adding more attributes such as weather conditions, density of potholes and the infamous accident hotspots of the city. Due to the absence of labels, we propose unsupervised learning techniques such as clustering to map different data points to relevant clusters. The clusters correspond to the likelihood of an accident taking place after profiling the drivers with the relevant available features. We propose to use different machine learning algorithms on the datasets and thus come up with the best performing ones to therefore predict accident hotspots.