

CSE523 - Machine Learning

Weekly Report 4

**Classification of Drivers based on their Driving Patterns**

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Weighted Risk Values:

* We realized that not all risky driving behaviors are equally important. We started looking into how different risky behaviors relate to each other and to good driving habits.
* We began studying how fast a car speeds up or slows down affects its risk score.
* Methodology Refinement: We continued to improve our methods for analyzing driving behavior, especially by considering different levels of risk.
* We tested different ways to find patterns in the data and understand how they relate to risky driving.

Challenges Encountered:

* Data Complexity:The data we get from drones is complicated, which makes it harder to figure out useful information. Understanding how driving behaviors change over time is tricky and needs creative solutions.
* Model Optimization:We're trying to make our analysis methods both accurate and easy to understand, which can be tough. Making sure our methods work well with a lot of data is an ongoing challenge.