Drowsiness Alert Using Machine Learning Algorithms and Deep Learning Algorithms

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Abstract: *We proposed to use this approach to reduce the number of accidents caused by driver weariness, thereby improving road safety. This device uses visual data and artificial intelligence to identify driver drowsiness automatically. For the neural transfer function, we use SoftMax to find, monitor, and examine both the driver's face and eyes in order to measure PERCLOS (% of eye closure). It will also employ alcohol pulse detection to evaluate whether or not the user is normal. Due to long driving periods and boredom in overcrowded conditions, driver fatigue is one of the primary causes of traffic accidents, particularly for drivers of large vehicles (such as buses and heavy trucks).*

Keywords: Drowsiness in Drivers, Machine Learning, Image Processing, and Deep Learning

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