

# DROWSINESS DETECTION SYSTEM

## Abstract

Drowsiness poses a significant risk to safety and productivity, especially for drivers, students, and workers. This project introduces a drowsiness detection system designed to address this issue by focusing on eye detection. Utilizing OpenCV, Python, Dlib, and deep learning technologies, the system continuously monitors eye movements and closure to identify signs of drowsiness. By analyzing eye aspect ratio (EAR) and using machine learning algorithms, the system detects drowsiness in real-time and triggers timely alerts. This non-intrusive approach offers a practical solution for enhancing alertness and preventing drowsiness-related incidents, contributing to improved safety and productivity in various environments.

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## Reference

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