

# Driver's Drowsiness System

**Shaksham Mudghal, Shikha Gupta, Vernika Singh**

Department of Computer Science and Engineering

Raj Kumar Goel Institute of Technology, Ghaziabad, Uttar Pradesh, India

**Abstract:** *Driver fatigue has become one of the leading causes of car accidents globally in recent years. Fatigue is often indicated by driver sleepiness, which can be quantified and monitored. Identifying driver sleepiness is crucial for the safety of individuals and property alike. The aim of this endeavor is to create a model of a sleepiness detection system that operates in real-time. The system captures images continuously while analyzing the eye's state using the mentioned approach and alerts the driver when necessary. Its primary goal is to issue warnings to drivers who may be drowsy, thereby enhancing road safety. Driver fatigue resulting in sleepiness is a prevalent cause of accidents on the road. Currently, it stands as a significant contributing factor to traffic accidents. Recent statistics indicate that a substantial number of accidents were caused by drivers who were too drowsy to operate their vehicles safely.*

**Keywords:** Driver fatigue detection, Face Detection, Face Tracking, Eye Detection, Eye Tracking, Drowsiness detection, Distraction detection