IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
Impact Factor: 7.53
Volume 4, Issue 6, November 2024

Real-Time Driver State Detection Based on OpenCV and MediaPipe Libraries

Varshini H S[1] and Dr. Chitra K[2]
Student MCA, IVth Semester[1]
Associate Professor, Department of MCA[2]
Dayananda Sagar Academy of Technology and Management, Udaypura, Bangalore, Karnataka, India
varshinihs455@gmail.com and chitra-mca@dsatm.edu.in

Abstract: *Empowering street security requires being able to distinguish occupied driving. A real- time way to keep an eye on a driver's condition is to utilize driver-state diversion. We will screen varieties within the driver's eye and look developments by utilizing the eye-aspect proportion (EAR) and the look score. A dashboard-mounted camera gives us with video, which we record and prepare utilizing the OpenCV and Mediapipe modules. Deciding the driver's sign of languor is made simpler by the EAR. Discover out in the event that the drivers are occupied utilizing the look score. As a implies of instantly distinguishing and settling such issues, the framework persistently checks the driver's confront. With broad testing, we appear that our approach can effectively caution drivers, lessening the chance of collisions and progressing everyone's security when driving*

Keywords: Eye-aspect ratio(EAR), Gaze score, Percentage of eyelid Closure (PERCLOS), Drowsiness Detection