# Driver Drowsiness Detection Using OpenCV and dlib

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57 CONFIRMED DEAD ON THE KINTAMPO-TECHIMAN HIGHWAY ON 22<sup>ND</sup> MAY, 2019

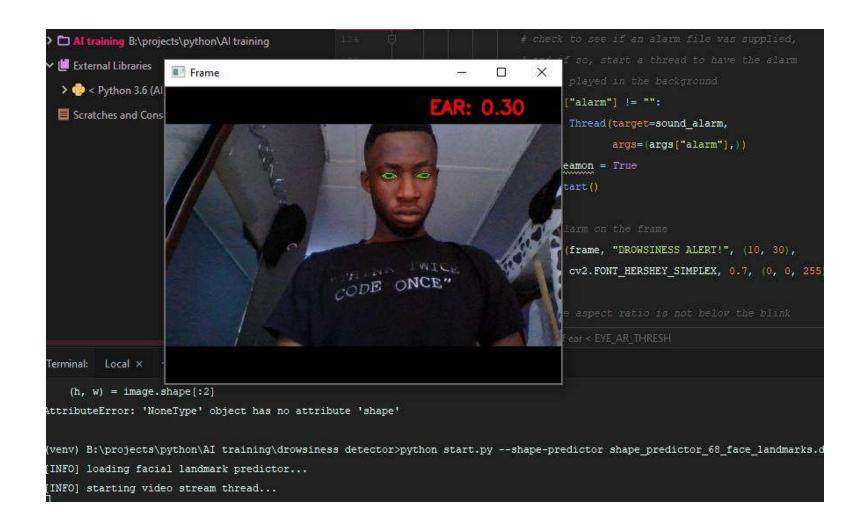
#### PROBLEM STATEMENT

Over 100,00 deaths are caused by sleeping drivers and there are no existing solutions to curb the menace in commercial drivers in Ghana.

#### **OUR SOLUTION**

A drowsiness detection application built with OpenCV to detect and prompt drivers when they are feeling sleepy.

This application can also be configured to send reports to the various transport unions and transport administrators so they know their drivers' performance on the road.



#### INNOVATION

This solution is innovative as there are currently no such solution used by the commercial transport sector in Ghana and this solution will help prevent a lot of deaths on our roads in Ghana and across Africa.

## **IMPACT**

This solution has a lot of impacts:

- 1. Save human lives
- 2. Financial impact
- 3. Business impact

### **TECHNICAL FEASIBILITY**

Items needed to implement:

- 1. Raspberry Pi
- 2. Webcam

The solution can be technically implemented.

# **DEMO**