Deep learning Model proposal T5 Bootcamp Data Analysis.

Driver Drowsiness Detection System in Real-Time using OpenCV and TensorFlow.

Objective:Build a system that detects whether a person is drowsy while driving and if so, alert himby using voice messages in real time.The system streams real time using web cam, and phone cam.

Dataset:The data consists of four training, and testing set [closed-open eyes, no-yawn-yawn].The size of data 175.84 MB.https://www.kaggle.com/serenaraju/yawn-eye-dataset-newwe plan to modify the dataset by adding feature engineering that will train the model on different positions and background

Tools: The model we used is built with Keras using Convolutional Neural Networks.
Anaconda Environment
 OpenCV Face Eye Detection
 Keras – To build Classification Model
Tensorflow-Keras uses TensorFlow as Backend
Pygame-to play alarm sound

Team:
Khulud Mansour.
Rana Alqahtani.
Ohoud Albabtain.