

SMART INDIA HACKATHON 2020

Driver Warning System

Main Aim :

1. Visual Input → Vocal Output

Input :

Video input

- Brake it into frames
- Process the frames
- Apply the algorithm
- Get updated frames
- Output the frames in a single video

Methods to tackle the problem statement:

Part 1 : Traffic Signs, Traffic signal, Crowd detection

- Collect large data-sets
- Scaling all the pictures to a particular size (n x m)
- Training a model using the datasets using deep learning modules
- Saving the model
- Implementing it in the problem statement

Part 2: Developing a text to speech chatbot

- Using google text to speech python module (gTTS)
- Making several test outputs and implementing it into our neural network
- Making a GUI or an App or an Website

Part 3: How to collaborate :

- We can use github to collaborate and change our code from anywhere
- We make our codes into functions and modules and upode it into github and make a master repo