Sussy Pixels

This is our submission for WinterSchool 2022 Problem Statements for the vertical: Computer Vision.

Team Members

1. Yash Sirvi (21CS10083)
2. Ashwin Prasanth (21CS30009)
3. Yelisetty Karthikeya S M (21CS30060)

Setup

```
pip install -r requirements.txt
```

Instructions for Task 1:

Go to the `Task1` folder and run:

1. `part1.py` for Part 1
2. `part2.py` for Part 2
3. `part3.py` for Part 3

You can also see the corresponding results of each part by checking the corresponding folder, named in the format `partXResults`

Kindly note that in `par1Results`, only `TimeandDistance.txt` needs to be checked

Instructions for Task 2:

Go to the `Task2` folder and run `task2.py`.

The video that we have made in Part 1 and are using for Part 2 is `video.mp4`

Note: We have not attempted Part 3 of the task due to the absence of an Arduino Board.

Changes done by us

1. We used colors instead of grayscale for visualisation.
2. We faced a lot of difficulties when trying to use Template Matching for the 2nd Task. That is why we instead used a trained model for detecting signs.