MES COLLEGE OF ENGINEERING, KUTTIPPURAM
DEPARTMENT OF COMPUTER APPLICATIONS
20MCA245 – MINI PROJECT

PRO FORMA FOR THE APPROVAL OF THE THIRD SEMESTER MINI PROJECT

(Note: All entries of the pro forma for approval should be filled up with appropriate and complete information. Incomplete Pro forma of approval in any respect will be rejected.)

Mini Project Proposal No : _____
(Filled by the Department)

Academic Year : 2021-2022
Year of Admission : 2020

1. Title of the Project : social distance
2. Name of the Guide :
3. Number of the Student: MES20MCA-2017
4. Student Details (in BLOCK LETTERS)

	Name	Roll Number	Signature
1.	Fathimasana	17	

Date:01/12/2021

Approval Status : Approved / Not Approved_

Signature of Committee Members

Comments of The Mini Project Guide Dated Signature

Initial Submission :

First Review :

Second Review :

Comments of The Project Coordinator Dated Signature

Initial

Submission:

First Review

Second Review

Final Comments :

Dated Signature of HOD

SOCIAL DISTANCE

Fathimasana

Introduction:

In the fight against the COVID-19, social distancing has proven to be a very effective measure to slow down the spread of the disease. People are asked to limit their interactions with each other, reducing the chances of the virus being spread with physical or close contact.

This project can be a handy surveillance tool to check people moving in an area are following the minimum requirement of social distancing or not. It has a feature where it tells how many people are moving on the road while keeping a safe distance and how many are walking too close and violating the rule of social distancing.

Objectives:

To ensure social distancing protocol in public places and workplace, I have developed social distancing detection tool that can monitor if people are keeping a safe distance from each other by analyzing real time video streams from the camera. For example: People at workplaces, factories, shops we can integrate this tool to their security camera systems and can monitor wether people are keeping a safe distance from each other or not.

Detect humans in the frame with yolov3.

Calculates the distance between every human who is detected in the frame.

Shows how many people are at High, Low and Not at risk.

Problem Definition:

In these times of crisis caused due to coronavirus, some of the steps taken to counter it has been social distancing. This project can be a handy surveillance tool to check people moving in an area are following the minimum requirement of social distancing or not. It has a feature where it tells how many people are moving on the road while keeping a safe distance and how many are walking too close and violating the rule of social distancing.

Basic functionalities:

monitor wether people are keeping a safe distance from each other or not.

Tools / Platform, Hardware and Software Requirements:

Python based Deep Learning libraries will be exploited for the development and experimentation of the project. Tools such as Anaconda Python, and python libraries will be utilized for this process. IDE:spider/pycharm

Hardware Requirements:

I5 processor based computer,internet connection

Software Requirements:

Windows 8 or higher,python