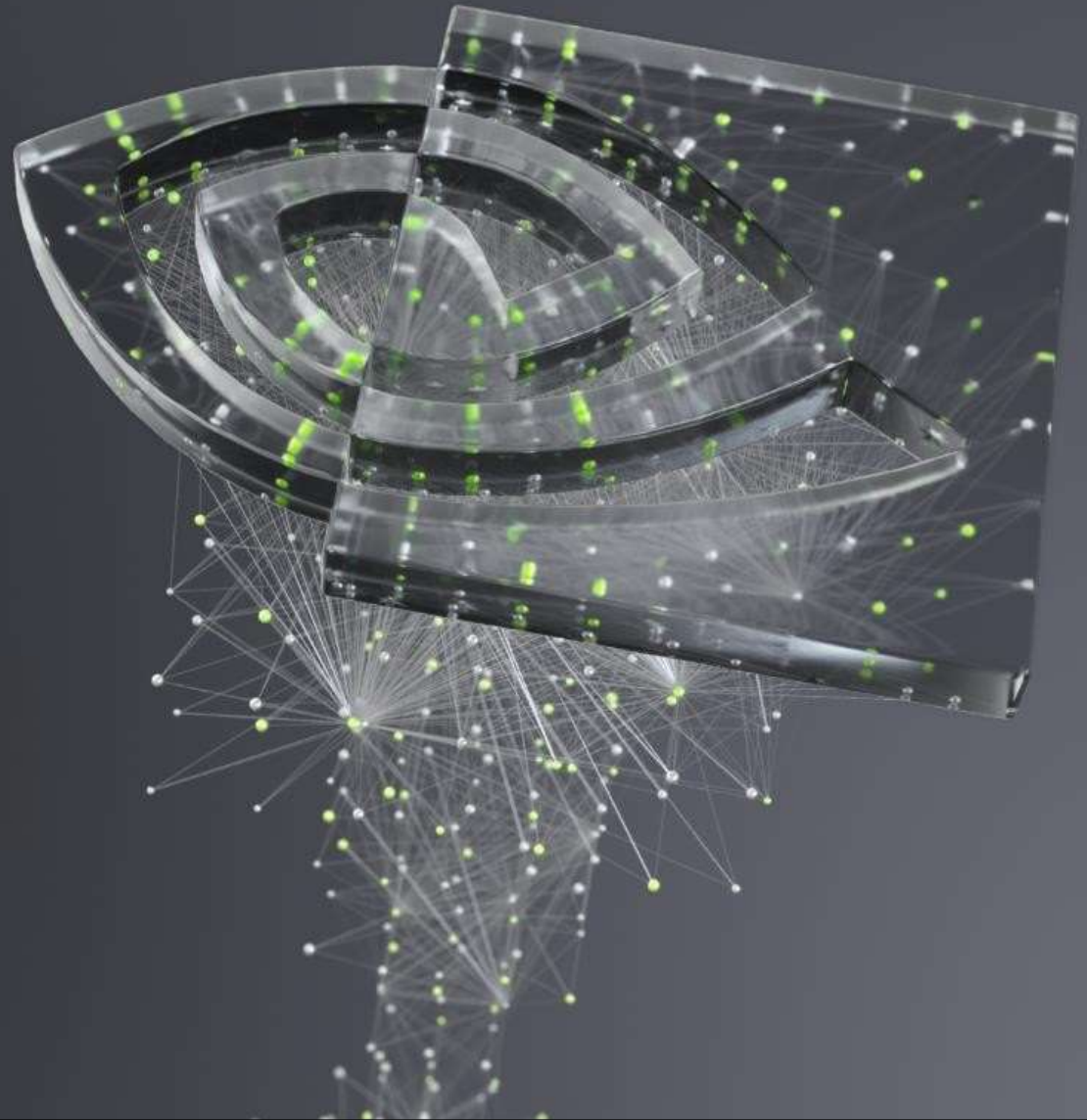




ACADEMIA CONNECT HACKATHON

Team The Inevitable

12th Oct 2021



India Academia Connect AI Hackathon

Team Inevitable

Akash K [YR III]

Department of Mechanical Engineering
Thiagarajar College of Engineering, Madurai

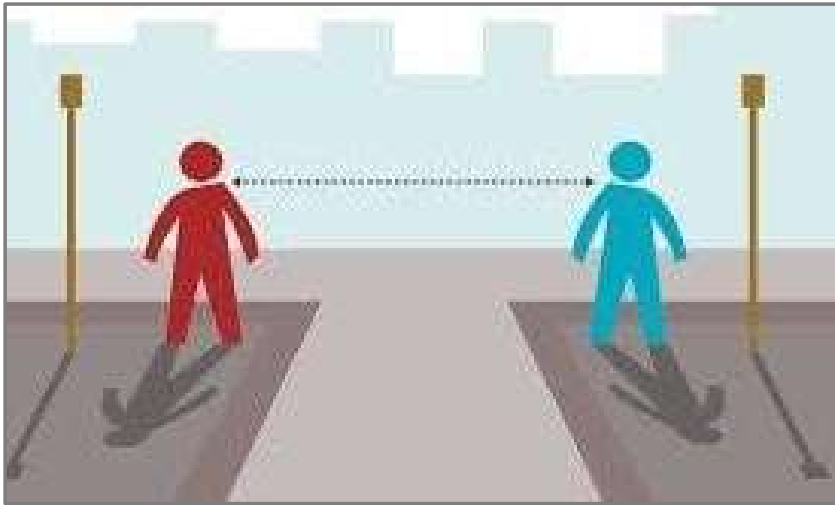


Shamin Thres J [YR III]

Department of Information Technology
Thiagarajar College of Engineering, Madurai

Problem Statement

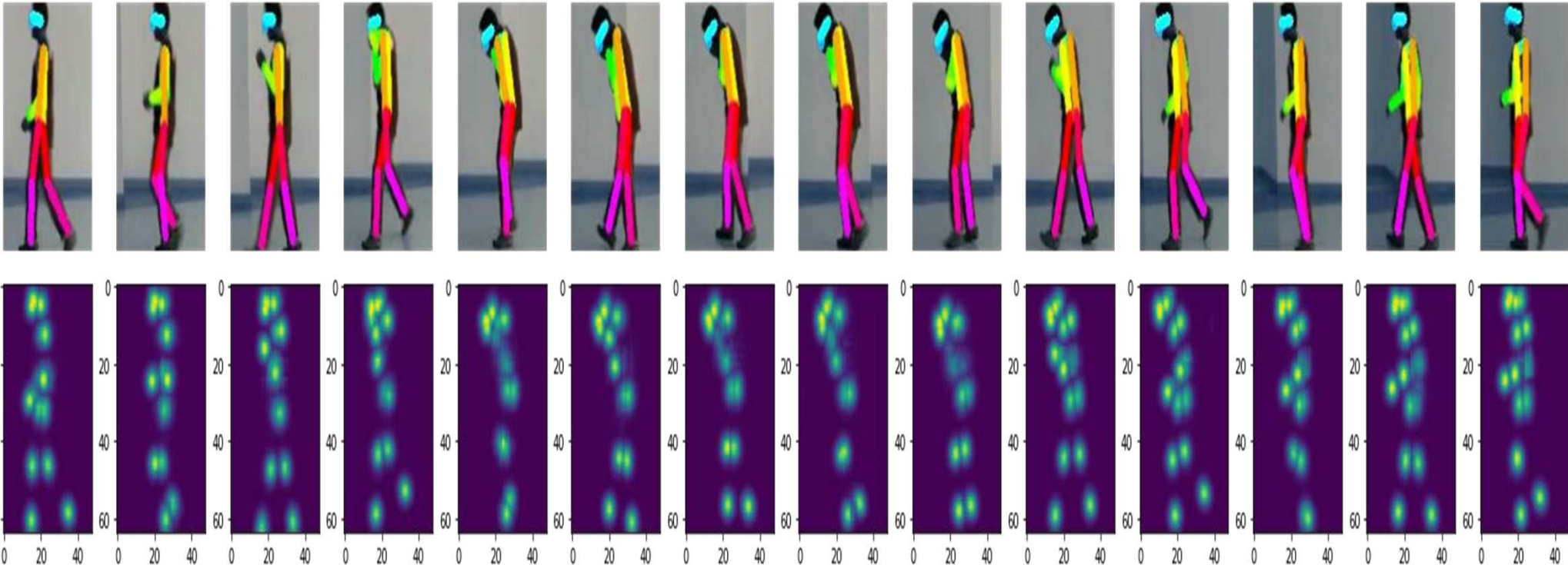
Intelligent Video Analytics



To enforce social distancing, it is important to monitor suspicious scenarios like crowd gathering or tracking etc. Usage of AI has surpassed traditional methods and can help automate this pattern recognition.

The objective of this problem statement is to find different patterns on input sources like camera, satellite, social platforms which can help identify suspicious activities to stop or track covid-19 spread.

Dataset [Pre-Processing ft.HRNet - heatmaps]



17 heatmap (64,48)

Demos

app · Streamlit

localhost:8501

Social Distancing Analyzer Web App

Find total number of people who are following social-distancing

Input Video:

0:00 / 1:40

Choose the app mode

About the App

Team Inevitable

Track Covid19 Violation and Social Distancing

This app keeps a log of crowd count and violations

Provides realtime video analytics and results

Made with Streamlit

ENG IN 16:10 12-10-2021

Demos

Extract HR_NET | Kaggle

app5 · Streamlit

app5 · Streamlit

Not secure | 0fa1-35-197-93-4.ngrok.io

Private

HR_Net pose detection

Output Video:

0:01 / 0:03

0:01 / 0:03

Choose the app mode

The pose detected is :

cough

ENG IN 16:03 12-10-2021