# **Group No: 20**

## **Project Title: Fire and Smoke Detection using Images**

#### **Group Members:**

Sarthak Dave AU2244001

Yukta Patel AU2244002

Saiyam Sanghvi AU2244003

Dhaval Makwana AU2244004

## **Weekly Progress Report**

#### **➤** Tasks Performed in the week:

- 1. Trained YOLOv8 on a custom dataset of fire images.
- 2. Fine-tuned the YOLOv8 model to increase its accuracy in detecting fires.
- 3. Implemented the YOLOv8 model into the fire-detection.
- 4. Conducted initial testing of the system and made necessary adjustments
- 5. Refining the fire-detection system and conducting further testing

#### Results saved to runs/detect/train

Fusing layers...

[W NNPACK.cpp:64] Could not initialize NNPACK! Reason: Unsupported hardware.

Model summary: 168 layers, 11125971 parameters, 0 gradients, 28.4 GFLOPs

image 1/1 /Users/dhavalmakwana/Downloads/Fire-Detection-using-YOLOv8-main/ultralytics/yolo/v8/detect/img\_259.jpg: 640x640 2 Fires, 461.5ms

Speed: 2.6ms pre-process, 461.5ms inference, 15.6ms postprocess per image at shape (1, 3, 640, 640)

Results saved to runs/detect/train2

(base) dhavalmakwana@DHAVALs-MacBook-Air detect %

