Fire Detection & Localization Using Surveillance Camera

TEAM - HERTZ

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Problem Statement

- Able to detect fire using surveillance camera
- Able to locate the location of fire
- Able to provide effective detection & report system

Approach to the Problem

In reference to this problem we are going to use video from a surveillance camera and using an AI algorithm, we will detect the fire. After the fire has been detected the location of the fire will be reported using the alert system.

The video from the surveillance camera will be converted into frames and pixels to extract the colour and map the fire region. After the fire is detected and marked we will report it using a web portal or mobile application to alert the authorities.

Technology to be used

- Python
- Flask
- HTML
- CSS
- Javascript

Use Cases

- Use Case 1: Uploading a video of a fire, the algorithm should be able to detect the fire and its location.
- Use Case 2: Feeding the live footage through webcam, the algorithm should be able to detect the fire in real time.

