

Fire Detection & Localization Using Surveillance Camera

TEAM - HERTZ





Team Members

Mikhil Lal - Team Leader - 100863785

Rahul Gupta - Team Member - 100841231

Yashika Goel - Team Member - 100848238

Harsh Shah - Team Member - 100873223

Reeba Mary Betty - Team Member - 100890704



Contents

- Problem Statement
- Approach to the problem
- Technology to be used
- Use Cases



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

THANK YOU