

# Cam Vault: AI-Powered Home Security

Cam Vault is an AI-powered home security system designed to protect your home from theft, fire, and unauthorized access.

TEAM:-BLINKERS



# Problem: Home Security Threats

## Theft

Traditional security systems are often reactive, leaving homes vulnerable to theft.

## Fire

Early detection and response are crucial for mitigating fire damage and saving lives.

## Unauthorized Vault Access

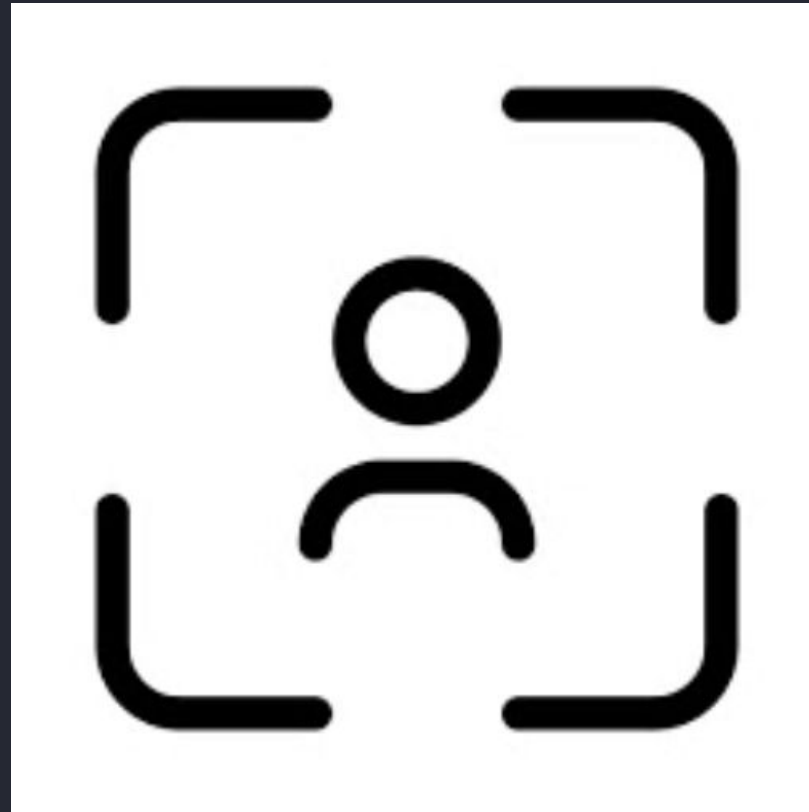
Protecting your home and family from unwanted intruders is paramount.

# Cam Vault Solution



## Motion Detection

AI-powered motion detection identifies potential threats



## Image Capture

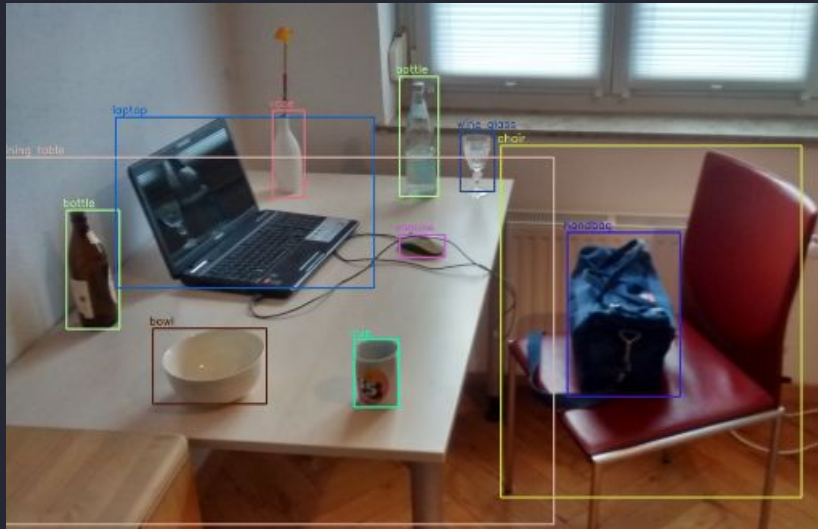
The system captures images for visual confirmation of threats.



## Real-Time Alerts

Instant notifications are sent to users for prompt action.

# Key Features



## YOLO Object Detection

Recognizes objects and faces for accurate threat assessment.



## Fire Detection

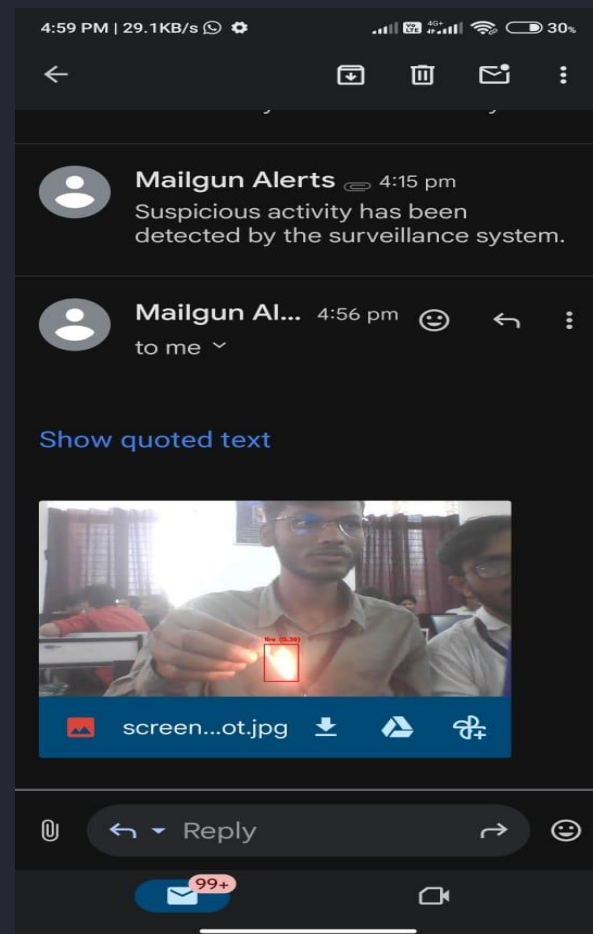
Monitors the light frequency prevent fires.



## Vault Monitoring

Protects valuable assets by monitoring access to secure areas.

# Alert sended when suspicious activity detected



# Technology Stack

## Frontend

Tkinter (GUI) for a user-friendly interface.

## AI/ML Models

YOLO, Gemini API for object detection and analysis.

## Backend

PyMongo (Database) for storing data and user information.





# Future Scope



## Smart Home Compatibility

Cam Vault aims to integrate seamlessly with existing smart home systems, allowing users to manage their security alongside other home automation features



## IoT Integration Plans

IoT integration will allow Cam Vault to connect with various smart devices, creating a more cohesive security ecosystem.



## Enhanced Cloud Storage Solutions

Future enhancements will include expanded cloud storage options for security footage, providing more capacity and accessibility



# Conclusion

Cam Vault combines AI-powered technology and secure infrastructure to provide a comprehensive home security solution for modern homeowners.