

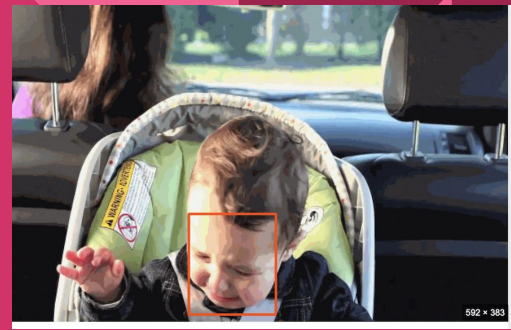


Guardian Eye

Preventing trapped incidents

1. Nishal Sukumar
2. Steve Prathik Fernandes
3. Yasaswini Sonnapareddy

Problem Statement:



Unattended Lives in Locked Vehicles – A Preventable Global Crisis

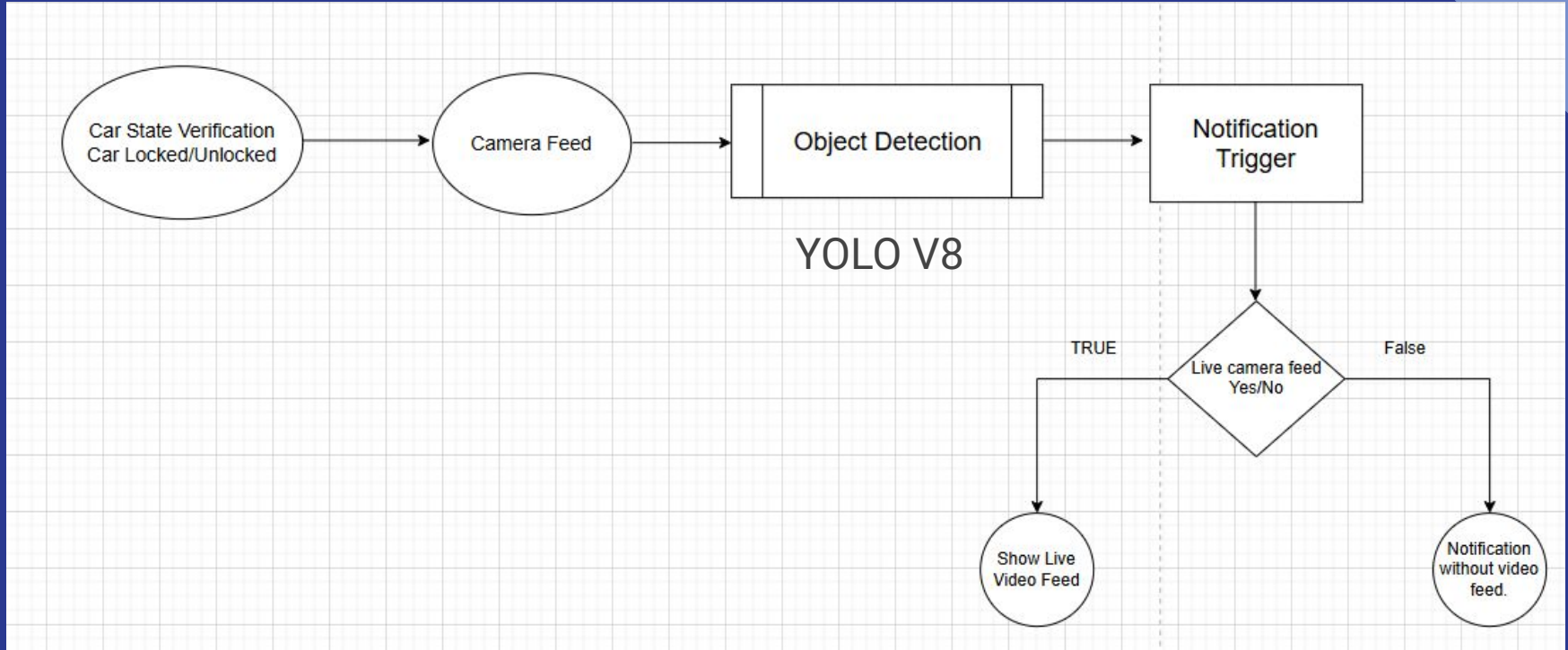
Every year, countless humans and pets suffer life-threatening consequences when accidentally left in locked vehicles. Whether due to distraction, emergency situations, or malicious intent, these trapped occupants face:

- **Rapid Temperature Escalation:** Interior temperatures can reach 120°F+ within minutes, causing heatstroke
- **Oxygen Deprivation:** Limited airflow leads to suffocation and organ failure
- **Delayed Intervention:** Bystanders often fail to recognize emergencies until irreversible damage occurs

The Stark Reality

- **Human Toll:** Over 900 US child vehicular heatstroke deaths since 1998 (NHTSA) + undocumented adult/pet cases
- **Species Blindness:** 74% of thermal detection systems fail to recognize pets (AVMA)
- **Critical Window:** Brain damage occurs within 15 minutes of body temperature exceeding 104°F

The Solution



What we expect to happen:

Problem Addressed: Prevents accidental leaving of children or pets in locked vehicles.

Technology Used: In-car camera monitors the vehicle's interior to detect the presence of a child or pet.

Instant Alerts: Sends immediate notifications via SMS or email, with video feed option, to the car owner.

Prevents Dangers: Aims to prevent heatstroke, suffocation, or other risks associated with leaving children or pets unattended in cars.

Real-Time Action: Enables the owner to take timely action and ensure safety.

Key Features to highlight

Real-Time Monitoring: Continuously tracks the vehicle's interior, ensuring immediate detection of a child or pet inside.

Automatic Detection: Uses in-car camera vision algorithms to identify children or pets, removing the need for manual checks.

Immediate Alerts: Instantly notifies the car owner via SMS or email upon detection, enabling quick intervention.

Low Maintenance & Easy Setup: Operates automatically with minimal upkeep and integrates easily with the vehicle's internal camera.

Future Challenges

- Data Annotation.
- Training the model on Custom Dataset.
- Sensor Integration to detect the Car Status.
- Power for the Monitoring Camera inside the Car.
- Privacy and Data concerns.



Questions?



Thank You

