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# AI-POWERED GENDER CLASSIFICATION AND THREAT DETECTION

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# PROBLEM STATEMENT

Despite advancements in technology and law enforcement, crimes against women, including harassment, kidnapping, and assault, continue to occur. These incidents are particularly prevalent in isolated or low-traffic areas where immediate assistance is unavailable. Existing surveillance systems often lack real-time threat detection, leading to delayed response times. Additionally, many current solutions generate false alarms, reducing their overall effectiveness.





# PROPOSED SOLUTION

- Analyzes video feeds using a gender detection model (Roboflow API).
- Identifies lone women and detects if a woman is surrounded by multiple men (proximity analysis).
- Summarizes each detected event using Groq AI to create security-friendly reports.
- Sends immediate SMS alerts to authorities (Twilio API) when a potential threat is detected.
- Streamlit-based Dashboard: Allows users to upload videos and monitor analysis results easily.
- Minimizes false alarms by combining gender ratio, proximity, and time-based filtering logic.

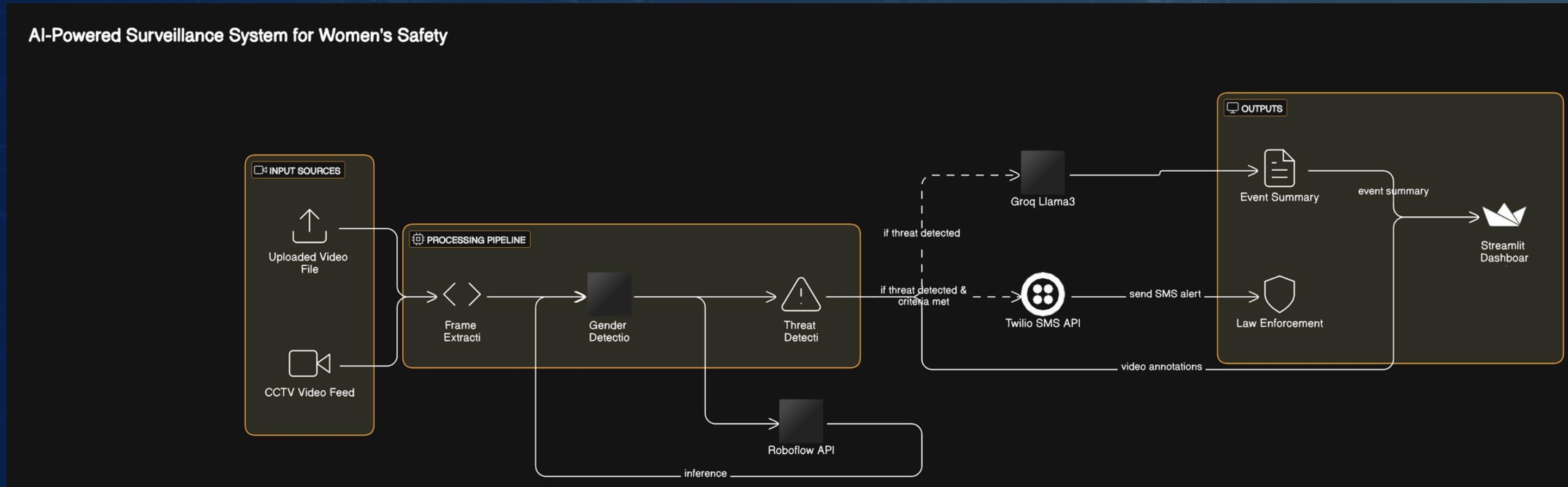
The system prioritizes real threats and ensures faster response from law enforcement.





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# ARCHITECTURE DIAGRAM





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# THANK YOU!

As we look to the future, these technologies will play a crucial role in shaping a better world for generations to come.

