

# Community Crime Alert and Assistance System Using AI-Based Verification and Real-Time Reporting

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**Abstract:** *Public safety is a growing concern in both cities and rural areas. Delays in reporting crimes and poor communication between citizens and authorities make it hard to respond effectively. This paper introduces the Community Crime Alert and Assistance System (CCAAS), a low-cost, web-based platform that allows for real-time crime reporting, alert distribution, and community-driven verification. Users can report suspicious activities or emergencies by providing text descriptions, location data, and multimedia evidence like images or videos.*

*To tackle the issue of false reporting, the system uses a simple AI-based filtering method combined with a volunteer verification model. Trusted community members confirm the incidents reported. The backend is created with Python Flask, while SQLite or MySQL handles secure storage. The responsive interface is designed with HTML5, CSS3, and JavaScript, ensuring accessibility across different devices.*

*The platform also supports offline reporting using local data caching and simulated SMS alerts for areas with low connectivity, making it ideal for resource-limited settings. Experimental evaluation shows that CCAAS improves data reliability, encourages citizen involvement, and provides authorities with a real-time dashboard to visualize crime hotspots and prioritize incidents effectively. Overall, the system connects communities with law enforcement and offers a scalable, cost-effective solution for better public safety monitoring..*

**Keywords:** Community Crime Alert System, Real-Time Reporting, Public Safety, Python Flask, Artificial Intelligence (AI), Volunteer Verification, Geolocation, Multimedia Evidence, Offline Support, SMS Notification, Crime Prevention, Open-Source Technologies

