

Safepath - Identifying Safe and Risky Zone

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Abstract: *The SafePath system is an innovative, location-based safety alert application designed to enhance public safety by identifying and providing real-time notifications about safe and risky zones. By integrating GPS technology, data analytics, and mobile communication networks, SafePath processes historical crime data and real-time reports to classify areas into crime-prone and safe zones. Users receive instant alerts about nearby crime zones, enabling them to take precautionary measures and avoid unsafe areas. Additionally, the system notifies authorities to increase surveillance in high-risk locations, promoting proactive crime prevention. SafePath's effectiveness relies on continuous data updates, machine learning algorithms for predictive analysis, and a user-friendly mobile interface. This system not only empowers individuals with actionable information for safer navigation but also supports law enforcement in efficient resource allocation and community engagement, ultimately contributing to a safer urban environment.*

Keywords: Safe zone detection, Real-time alerts, Crime prevention, Location-based safety, Community engagement.