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Smart Shoes for Women Safety

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Abstract: *This project presents a novel design and development of smart shoes integrated with Arduino Nano, GSM, and GPS technologies. The system aims to provide real-time tracking, safety features, and emergency alerts for individuals, particularly women and children. The smart shoes utilize Arduino Nano to process data from GPS and GSM modules, enabling location tracking and communication with authorities and family members. The system features a panic button, voice assistant, and accelerometer-based unusual activity detection. The shoes are designed to be compact, wearable, and user-friendly. The proposed system has the potential to enhance safety, reduce response time in emergencies, and provide peace of mind for individuals and their loved ones.*

Keywords: Smart Shoes, Arduino nano, GSM, GPS, Safety, Tracking, Emergency Alerts, Wearable Technology

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