



- → SecurePark Solutions is a pioneering company at the forefront of smart parking management systems.
- → Established in 2015, SecurePark Solutions has grown rapidly, thanks to its commitment to leveraging cutting-edge technology to address the challenges faced by traditional parking systems.
- → With a team of dedicated engineers, computer vision experts, and AI specialists, the company aims to create seamless and secure parking experiences for drivers and parking facility operators alike.

James Ehiabhi

Problem Statement

- Urbanization and the increasing number of vehicles have led to significant challenges in managing parking spaces efficiently.
- Traditional parking systems often suffer from issues such as unauthorized access, inefficient space utilization, long wait times for drivers, and security concerns.
- To address these challenges, a comprehensive smart parking system that leverages advanced computer vision and QR code technologies is needed.
- This system aims to automate the entry and exit processes, enhance security, and improve the overall user experience.



Task

1. Plate Number Detection and Extraction:

- Capture images of vehicles at entry and exit points.
- Detect and extract plate numbers using computer vision techniques.

2. QR Code Generation and Display:

- Generate QR codes containing the plate number and entry time.
- o Display the QR code for drivers to scan upon entry.

3. QR Code Decoding and Verification:

- Decode the scanned QR codes at exit points.
- Verify the plate numbers to ensure they match the ones in the QR codes.

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Dataset

SecurePark Solutions have provided you with some images of cars to build your first prototype.









