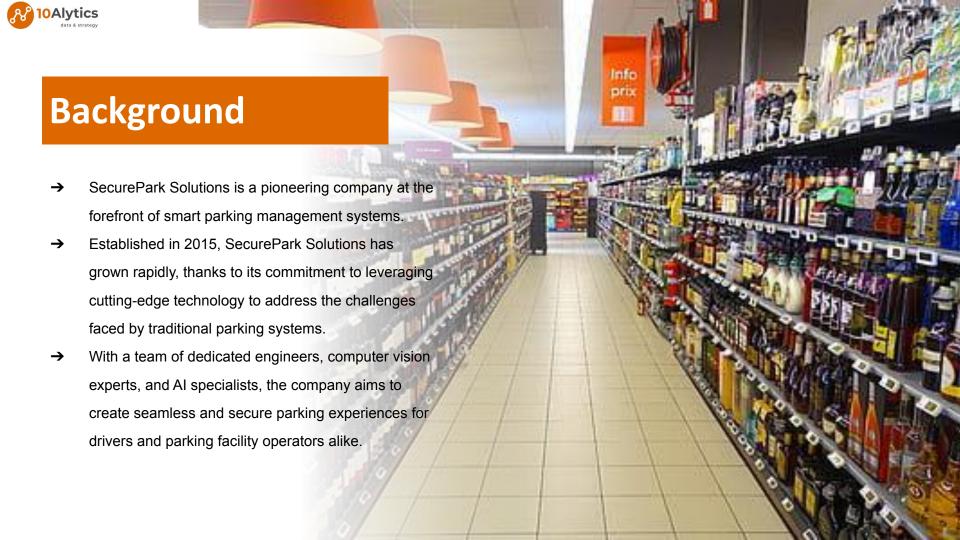


Case Study: SecurePark Solutions





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.



Dataset

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







