

@ PITCHDECK – PARKALYZE

AI-POWERED SMART PARKING MANAGEMENT
REAL-TIME, SENSOR-FREE, SCALABLE

Parkalyze is an AI-based software platform that detects, monitors, and intelligently assigns parking spaces in real time – without any sensors.

- ✗ Never search for red-green lights again
- ✓ Always know which exact space is free – and for which vehicle

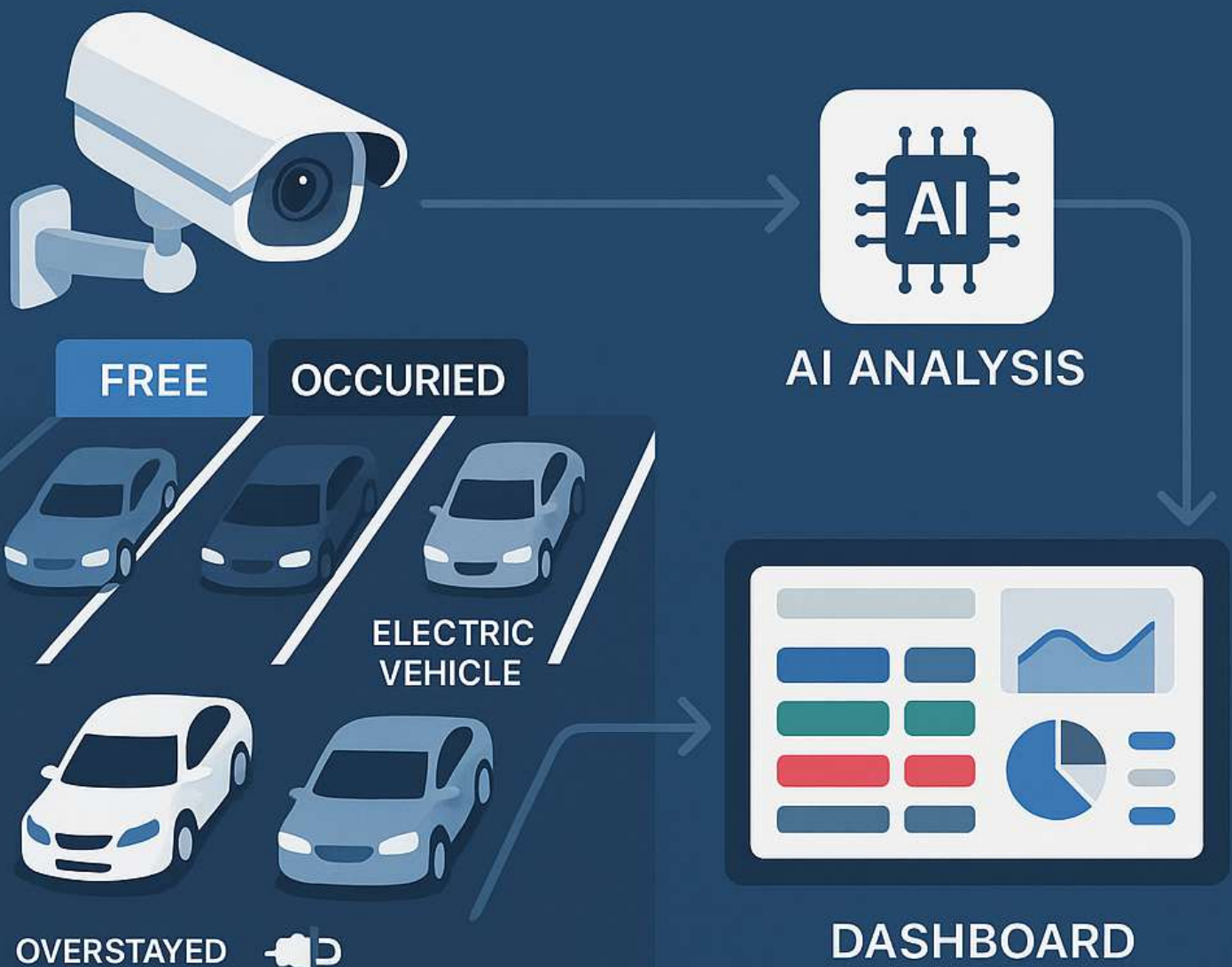


COMPACT

What is Parkalyze?

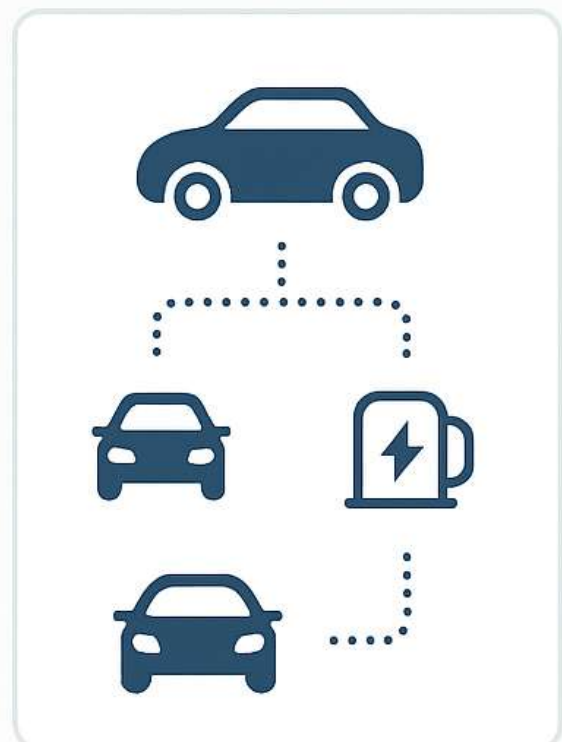
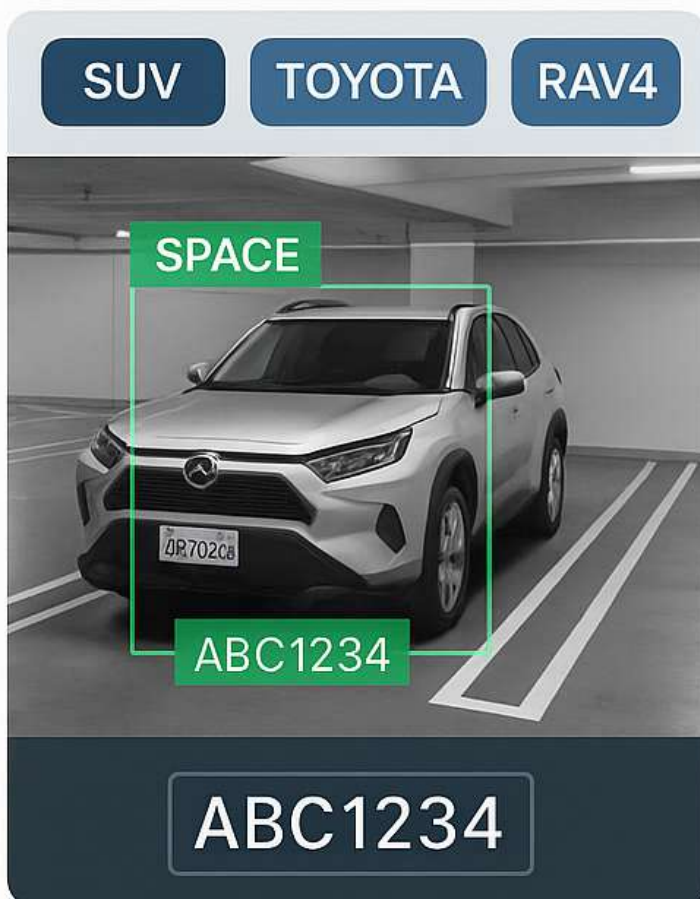
Parkalyze is a smart parking solution that works with standard cameras (Wi-Fi or PoE) to detect and manage parking spaces – no sensors required.

- Real-time parking space detection
- License plate and vehicle type recognition
- Integration with existing ticketing systems
- Fully GDPR compliant



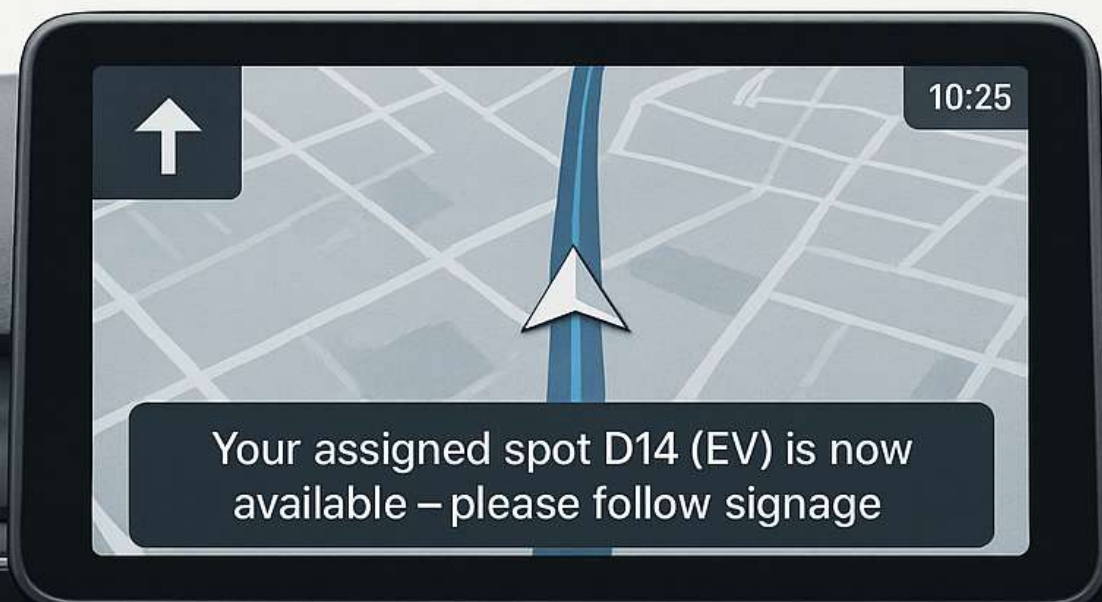
SMART AI – VEHICLE RECOGNITION & PARKING MATCHING

- ✓ Real-time camera-based space detection
- ✓ AI detection of license plates, make, model & vehicle class
- ✓ Automatic matching with appropriate parking spots:
 - Based on vehicle size (SUV vs. compact)
 - Electric charging availability
 - Proximity to exits or elevators









Real-Time Visualization & Navigation Integration

- Web App: Interactive parking map with space status
- On-site display: "Available spots on Level 3: D12, D14 (EV Ready)"
- In-Car Navigation Integration (HERE, TomTom, Android Auto): Your assigned spot D14 (EV) is now available – please follow signage



Use Cases & Technology

Module	Description
 Space Monit	Live camera status per parking slot
 EV Routing	EV detection & charger assignment
 Vehicle Matching	Size-based spot optimization
 Naviga- tion	Route-to-spot via vehicle system
 Ticket Enforce-	Overstay & violation alerts
 History & Logs	Audit logs for each vehicle & session

Technology Stack

- YOLOv5 (Torch), EasyOCR, GPT-4o
- Python (Flask), SQLAlchemy
- HTML5, WebSockets



PARKALYZE

VISION & FUTURE



- Smart City Dashboard Integration
- GDPR-ready & On-Premises Possible
- Connection to Traffic Guidance & Mobility Services

**No Searching. No Stress.
Just Parking.**