License Plate Detector

Using Image Recognition for Car Park Monitoring

SYSTEM'S DESCRIPTION

The AI system, developed for retail store managers and security personnel, uses image recognition technologies like optical character recognition to make parking lot allocation faster and more secure for customers.

BENEFITS

	Customers	Store	Institutions and Environment
Reduction in parking time	■	■	□
Reliable calculation of parking time	■	■	□
Improvement in the security of the parking area	■	■	■
Reduction in the need for human labor at parking points	□	■	□
Reduction in the congestion and unauthorized parking	■	■	■

■ benefit enjoyed by

Min. | **Limited Risk** | High | Unacc.

EU AI Act classification

The system poses limited risk due to its processing of personally identifiable data within non-critical domains

EU AI Act, Annex III

IMPACT ASSESSMENT REPORT

available in multiple formats including Braille

Last update: 28 Feb 2024

RISKS

MITIGATION STRATEGIES

		Customers	Store	Institutions and Environment
Capability Risks				
Accidentally capturing images of vehicle's surroundings	Filtering collected images images to include only licence plates	■	■	■
Delays during power and network disruptions	Maintaining traditional parking allocation methods	■	■	□
Human Interaction Risks				
Information imbalance between staff and customers during parking conflicts	Installing interactive screens for customers to access parking rules and check their current parking status	■	■	□
Systemic Impact				
Perpetuating the perception of constant surveillance	Automatic deletion of captured license plate images after seven days	■	■	■

■ risk faced by

SYSTEM'S DATA

Essential	Potentially employed for future uses	Personally indetifiable information
License plate images	□	■
Logs with the time of entry and exit	■	□

■ yes

PERFORMANCE OF MODELS ON DATA

Data	Model	Version	Accuracy
License plate images	CNN[1]-Plate	3.1	97%
	CNN[1]-Digit	5.1	94%
Logs with the time of entry and exit	Logistic regression	8.1.1	75%

[1] Convolutional Neural Network

REPORTING RISKS

Helpline: 0XXX XXX XXX
Reporting portal: report-risk@com
Mail: XX Main Street,
XXX-XXX Contry Z

REGISTERED OFFICE

Name of the company
XX Main Street,
XXX-XXX Contry Z

CERTIFICATES

GDPR Compliant