

ANPR with Driver Image Capture



Authorised

Vehicle No : TS0XXX180

Owner : Amar

Building : Ashoka Enclave

CASE STUDY

Pushpaktech Private Limited



PUSHPAK.AI

TRANSFORMING DATA

ANPR with Drive Image Capture for In-Premise

Detect and Read the License Plate of the Vehicle along with capturing Driver image

Overview

Deployed Location : Government and Private Organisation

Features: ANPR, Driver Image Capture, Vehicle Log – Entry/Exit, Report generation – Vehicle List & Person List

Deployed device: EDGE Devices (Desktop)

Project requirement:

The client needed the solution to generate the real-time vehicle management for in premises security. The Solution should be able to capture and read Vehicle Number Plate and should also capture the image of the Driver in the vehicle

Challenges:

- Multiple cameras are required
 - Specialised camera for capturing ANPR
 - Camera to capture image of the driver
- High infrastructure cost for deployment
- High Maintenance cost of the system

Pushpak Solution:

To address this challenge, Pushpak.ai developed a solution that works on EDGE devices such Desktop to help offset the cost of the ANPR system. Additionally, Pushpak.ai ensured that the ANPR system was efficient and cost-effective by selecting equipment and software that were reliable, easy to maintain.

Solution includes following features:

-
- Automatic Number Plate Recognition (ANPR): To keep track of and record the license plate numbers of vehicles entering and leaving the property.
 - Driver Image Capture: Capturing of the driver's face with the number plate of the vehicle
 - Vehicle Log: A log of all the vehicle that entered and exited the property with timestamps, vehicle data, and vehicle image.
 - Vehicle Log details – Details of the log which provides information about Vehicle Image, License plate image, Driver image along with the time stamp of entry & exit of the vehicle
 - Blacklisted & Whitelisted Vehicle – User can add list of black and whitelisted vehicle
 - Live View: Live stream of the camera with real time detection and data.
 - Report generation: Generate reports of the vehicular activity with the property from specific dates, vehicle classes, or even a particular date and time.
 - Driver Image Search : User can search the driver by uploading the image

Solution Highlights:

- ***Solution is deployed on Desktop which reduces deployment cost by 30%***
- ***Both Solutions are deployed using single CCTV camera feed which reduces the set up infrastructure cost by 50%***
- ***Image Search***

Pushpak Solution Advantages

- Easy Integration and deployment
- Support various license plate type – Standard, Non Standard, Various fonts
- High Accuracy
- Low Setup and deployment infrastructure cost
- In Premises Deployment

About Pushpak

Easy adoption of AI solution deployment on EDGE devices – Raspberry Pie /Nano / Xavier/Laptop/Desktop using existing CCTV Infrastructure

Building multiple Object Detection Models along with Tracking Model. Application Platform for dynamic deployment of multiple use cases with minimal effort.

Pushpak's object detection platform has following capabilities: -

1. Solution/ Use case can be deployed in a week's time.
2. Reduction in setup cost by 50%.
3. With capability to do in premise deployment, infrastructure cost reduction by 50%