## Automatic Number Plate Text Extractor

The Automatic Number Plate Text Extractor is a cutting-edge system developed for the data science domain. It utilizes image processing and deep learning techniques to automatically extract text from vehicle number plates. The project takes input from a camera in the form of images and videos, processes the feed using pre-trained machine learning models, performs image processing, and employs deep learning algorithms to generate accurate outputs.

**Key Components**

Input Interface, Pre-Trained Machine Learning Models, Image Processing, Deep Learning Algorithms, Output Generation

**Advantages**

Efficiency, Accuracy, Real-time Processing, Security and Surveillance, Traffic Management, Automation

**Technology Stack**

* Python
* Backend: OpenCV, easyOCR
* Database: SQL Server
* Other Tools: Git for version control and deployment tools Azure

A black and white photo of a car parked on a street

Description automatically generatedA car parked on the side of a road

Description automatically generated

Object Detection using Python, OpenCV, and EasyOCR

In this project, we developed an object detection system using state-of-the-art technologies such as deep learning and artificial intelligence. The system takes images or video feeds as input and performs object detection using Python, OpenCV for image processing, and EasyOCR for text recognition.

**Advantages**

Real-time Object Detection, Enhanced Accuracy, Versatility, Integration Potential,

**Technology Stack**

* Python, OpenCV, EasyOCR, Deep Learning
* Database: SQL Server
* Other Tools: Git for version control and deployment tools Azure, Visual Studio

