

Project Title:

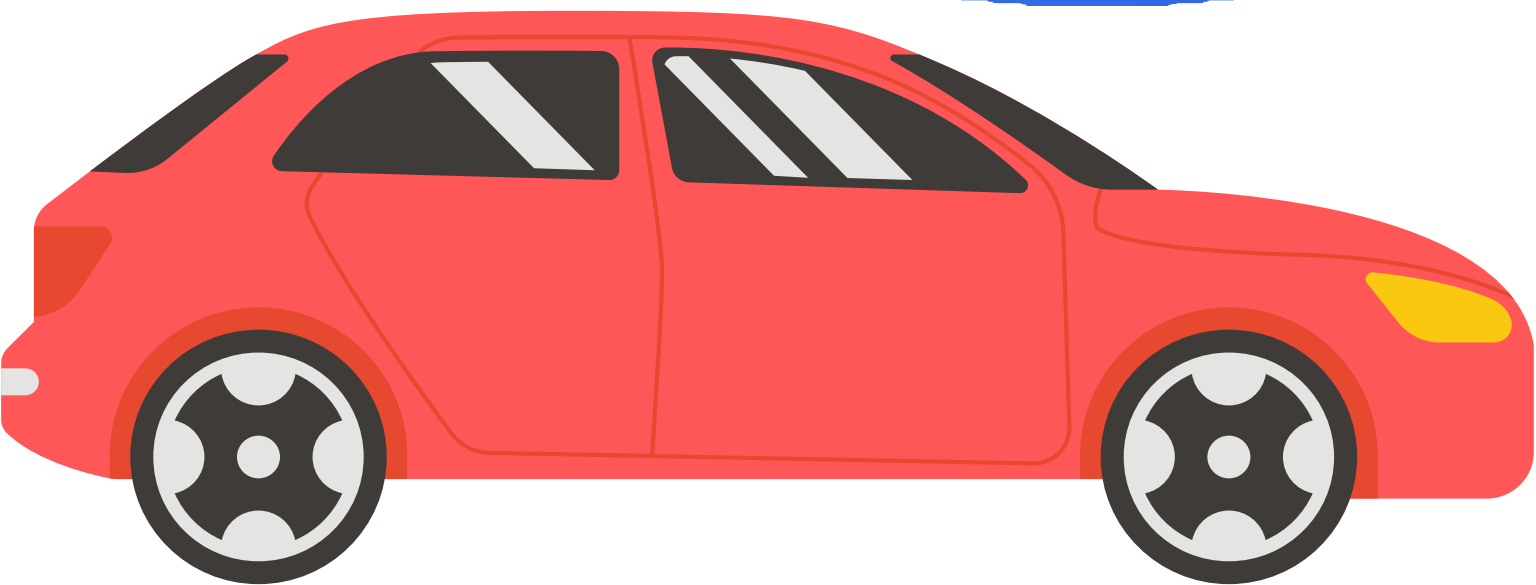
ANPR

(Automatic Number Plate
Recognition)



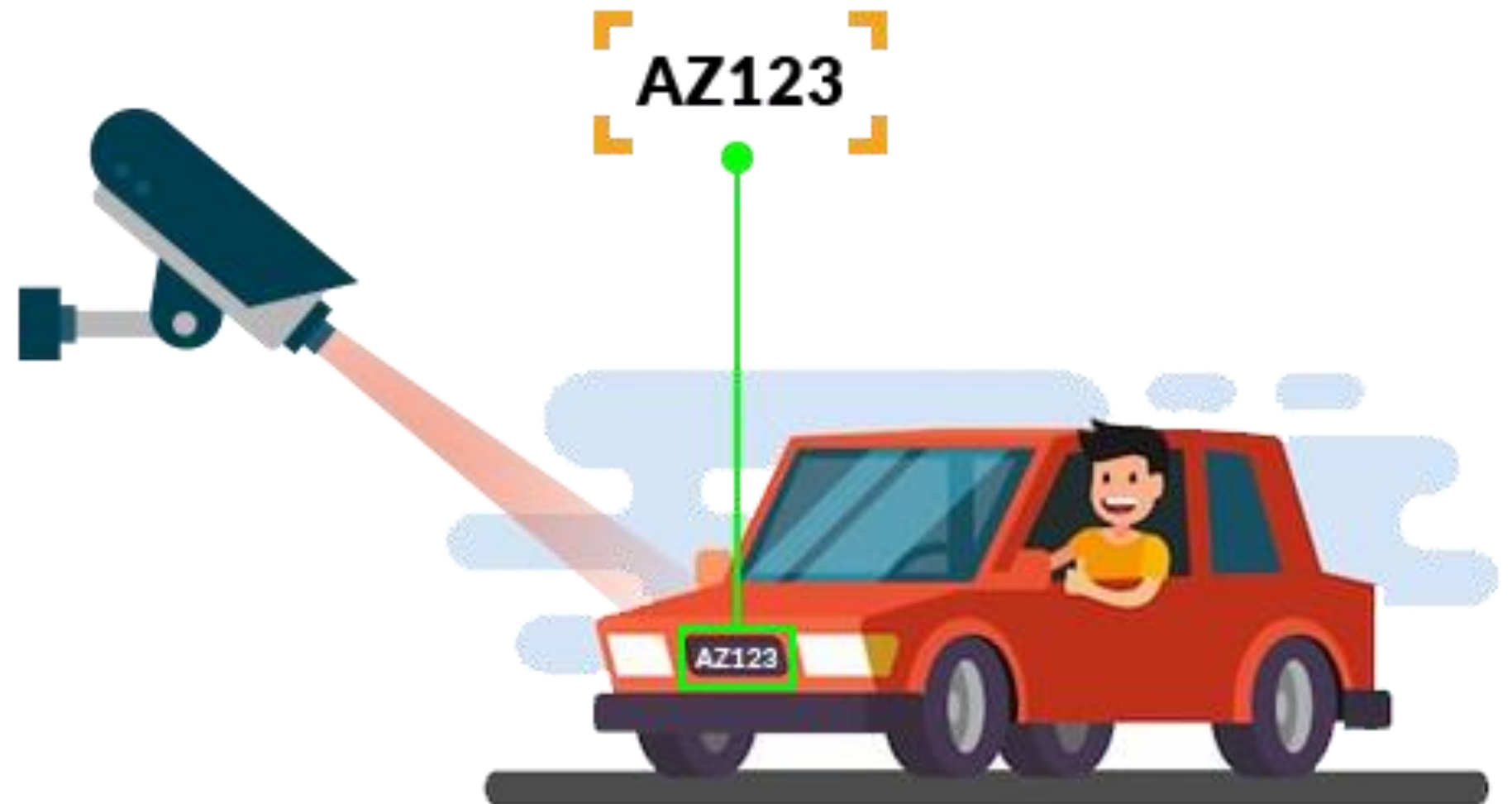
Presented by


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INTRODUCTION

Automatic Number Plate Recognition (ANPR) is a computer vision technology that enables automatic recognition of vehicle license plates. This technology is widely used in various fields, such as traffic management, law enforcement, toll collection, and parking lot management.



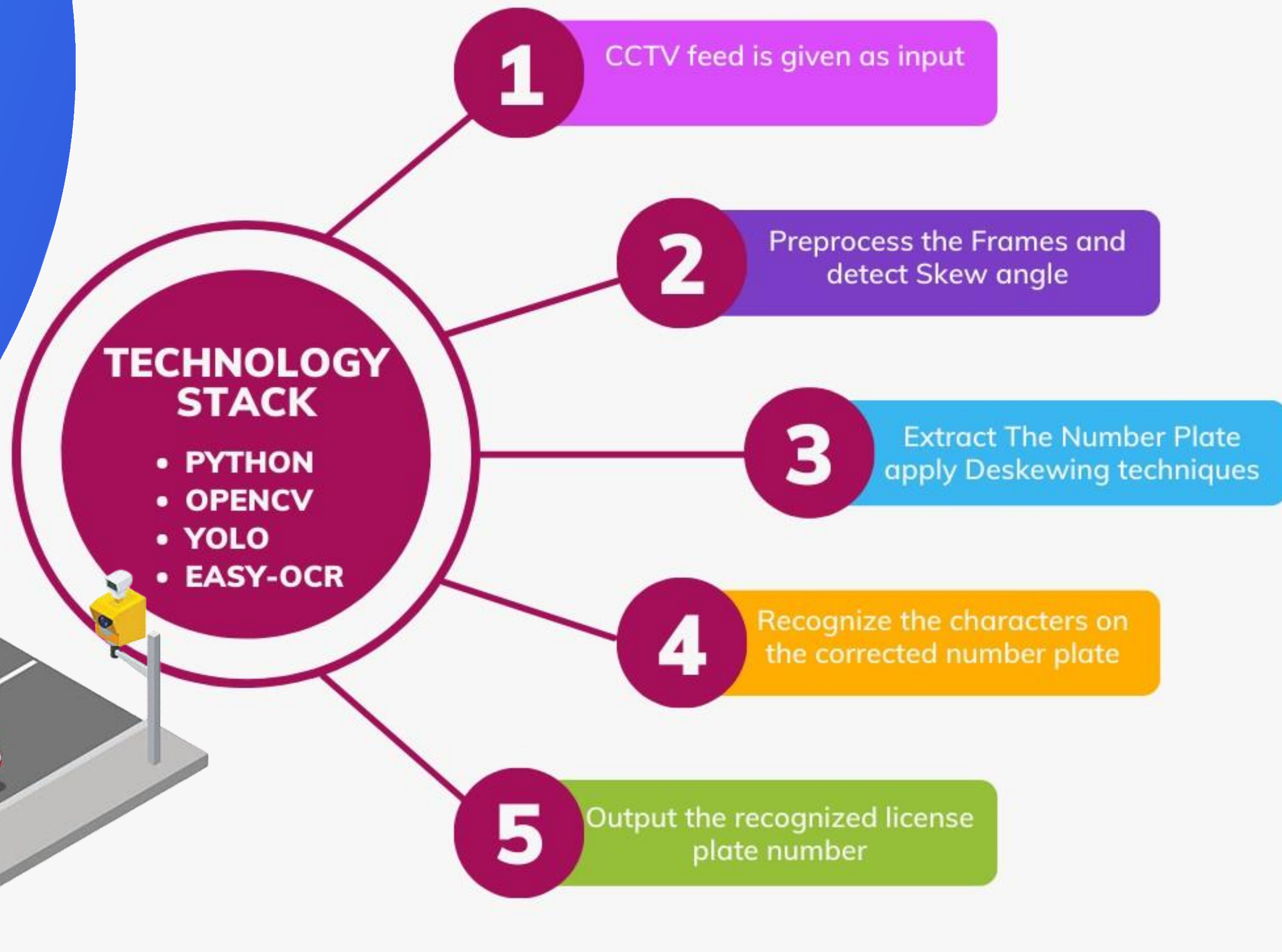
A stylized illustration of a license plate reader camera. It features a red and purple camera body with a lens, mounted on a blue robotic arm with joints. The background is a solid blue circle.

PROBLEMS IN TRADITIONAL ANPR SYSTEMS

- **Skewness:** Skewed image is caused by distortion or tilting away from the vertical or horizontal axis, due to factors such as camera angle, lens distortion, and image capture issues.
- **Speed:** ANPR systems need to be fast enough to process license plates in real-time. This requires efficient algorithms and hardware, such as GPUs, to accelerate the processing.
- **Image quality:** ANPR algorithms rely heavily on the quality of the input image. Poor lighting conditions, glare, shadows, and obstructions can all affect the accuracy of the ANPR system.



SOLUTION



USE CASES

- **Law enforcement:** ANPR systems can be used to identify stolen or wanted vehicles, track suspects and criminals, and enforce traffic laws.
- **Border control and customs:** ANPR systems can be used to track vehicles crossing borders and identify suspicious or illegal activity.
- **Toll collection:** ANPR systems can be used to automate toll collection and reduce traffic congestion at toll plazas.



ANPR Dashboard

ANPR using YOLO

localhost:8501

VPN

Settings 🤖

Confidence Threshold:


0.58

0.00

1.00


Select Model

v5



Automatic Number Plate Recognition 🚗 🚙

Upload an image to process ⓘ

 Drag and drop file here
Limit 200MB per file • JPG, JPEG, PNG

Browse files

Made with Streamlit

Results on an Image

ANPR using YOLO

localhost:8501


Settings 🤖


Confidence Threshold:

0.56

0.001.00

Select Model
v8

Uploaded Image:


Number plates detected:



Detection Confidence: 0.86

Upload an image to process

Drag and drop file here
Limit 200MB per file • JPG, JPEG, PNG

Browse files

6.jpg 180.1KB



Output Image:



THANK YOU
FOR WATCHING