Automatic Number Plate Recognition

In the following project, we will understand how to recognize License number plates using Python. We will utilize OpenCV for this project in order to identify the license number plates and the Paddle OCR for the characters and digits extraction from the plate. We will create a web app with a Flask framework that automatically recognizes the License Number Plate .

Duration : 1 month Language : english Price : 15000

What you will learn?

- Real Time Projects
- Automatic Number Plate Recognition
- Object detection using tensorflow
- Paddle OCR
- Modular Coding Techniques
- Learn about AWS basics along with CICD tools like Github actions for production-grade deployment
- Flask web framework

Features

- Do Everything In Industry Grade Lab
- Learn As Per Your Timeline
- Hands-On Industry Real-Time Projects.
- Self Paced Learning
- Dashboard Access
- Course Materials
- Assignments

Requirements

- System with minimum i3 processor or better
- At least 4 GB of RAM
- Working internet connection
- Dedication to learn

Course Curriculum

Welcome to the Course

- Course Overview

- Dashboard Introduction

Project :- Automatic Number Plate Recognition

- Introduction of Instructor
- Project Overview
- Application Tour
- Jupyter Notebook Walkthrough
- Tour to Architecture diagram
- Folder Structure overview
- Environment and Project Setup
- Data Ingestion
- Data Transformation
- Prepare Base Model
- Model Training
- Model Pusher
- Training Pipeline
- Prediction Pipeline
- Frontend app development
- Running project locally
- Running project using Docker
- Tour to the cloud and Service Overview (AWS)
- IAM setup
- ECR setup
- EC2 setup
- Self hosted runner
- Assignments Discussion
- End Notes