Sign Language Detection

The main point of this application is to use the camera to recognize gestures from the sign language to offer a new means of communication. The program will be able to transcribe gestures done by dumb people into written words printed on the screen.

Duration : 1 month Language : english Price : 15000

What you will learn?

- Real Time Projects
- Sign Language Detection
- Object detection with YOLO v5
- Creating custom dataset using OpenCV
- How to work with bash cmd & Docker
- Modular coding approach for training and prediction pipeline along with Flask app
- Learn about AWS
- Basics of CICD tools
- Github Actions for Production-grade deployment

Features

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

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 :- Sign Language Detection

- Introduction of Instructor
- Project Overview
- End Notes
- Problem Description
- Understand the application scope
- Tour to existing solution
- End Notes
- Solution Description
- Notebook Walkthrough
- Tour to Architecture diagram
- cost involved
- End Notes
- Structure overview
- Data Ingestion
- Data Validation
- Data Transformation
- Model Training and Tunning
- Model Evaluation
- Model Pusher
- Training Pipeline
- Prediction Pipeline
- Frontend app design
- Tour to the cloud and Service Overview (AWS)
- IAM setup
- ECR setup
- EC2 setup
- Self hosted runner
- docker
- Conclude the project
- Assignments & External Resources