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