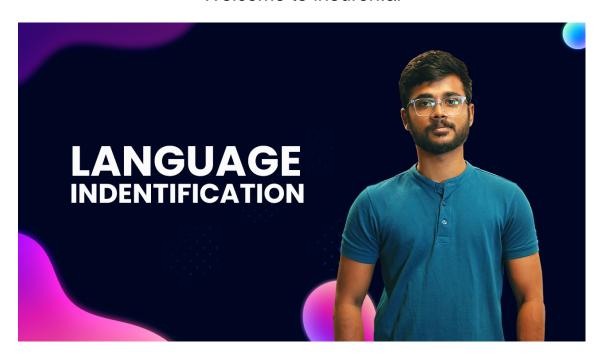
Welcome to ineuron.ai



Language Identification

Description:

This is an audio classification project in which we will use Pytorch for audio processing and CNN for audio classification. We will use Indian language audio data from four classes, Hindi, Tamil, Telugu, and Kannada, and predict the language spoken in the audio.

Start Date: 3rd Jan'23

Doubt Clear Time:

Course Time: Flexible

Features:

Do Everything In Industry Grade Lab

Learn As Per Your Timeline

Hands-On Industry Real-Time Projects.

Self Paced Learning

Dashboard Access

What we learn:

- # Real Time Projects
- # Language Identification
- # Audio preprocessing steps to build
- # Train and evaluate Deep learning models in PyTorch
- # Creating custom PyTorch dataset and dataloader
- # Use convolution neural network for audio classification.
- # Modular coding approach for training and prediction pipeline
- # Building Flask App
- # Learn about GCP basics
- # CICD tool like Github Actions for deployment

Requirements:

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

Instructor:

Name:

Aravind S

Description:

Data scientist with over a year of experience in developing advanced deep learning projects, core expertise in machine learning and NLP, proficient in data preprocessing and model building, and has closely mentored over 100 students from various domains.

>Welcome to the Course:

- >>Course Overview
- >>Dashboard Introduction

>Project :- Language

Identification:

- >>Introduction of Instructor
- >>Project Overview
- >>End Notes
- >>Problem Description
- >>Understand the application scope
- >>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
- >>Frontend app design
- >>Tour to the cloud and Service Overview
- >>IAM setup
- >>GCP setup
- >>Workflow
- >>Adding Self hosted runner
- >>Conclude the project
- >>Points to improve from current project
- >>Assignments & External Resources