REAL TIME COMMUNICATION SYSTEM POWERED BY AI FOR SPECIALLY ABLED

TEAMID: PNT2022TMID48097

SUBMITTED BY

J SAFRIN NIHAR   -   TEAM LEAD

K KARPAGAVALLI   -   TEAM MEMBER 1

L BHUVANESWAR   -   TEAM MEMBER 2

P PODHUMANI   -   TEAM MEMBER 3

PROJECT OVERVIEW

Our project aim is to convert sign language into text by this we can enable the communication of impaired people easily with normal person.

Firstly we will train the model by given the dataset and then we run in the local system then we deploy in the IBM cloud.

OUR MILESTONE

DATA COLLECTION

Create Train and Test Folders

IMAGE PROCESSING

Import Image Data Gender ator Library and Configure It

Apply Image Data Gender ator functionally to train And Test Set

MODEL BUILDING

Import the Required Model Building Libraries

Initialize the Model

Add the Convolution layer

Add the Pooling Layer

Add the Flatten layer

Adding the Dense Layers

Compile the Model

Fit and Save the Model

TEST THE MODEL

Import the Packages and Load the Saved Model

OpenCV Reference

Application Building

Build a Flask Application

Building Flask Application-part 3

Build the HTML Page

OUTPUT

How to Run Flask App Reference

Train CNN Model on IBM

Register For IBM Cloud

Train Image Classification Model