Arabic Sign Language Recognition Using Machine And Deep Learning

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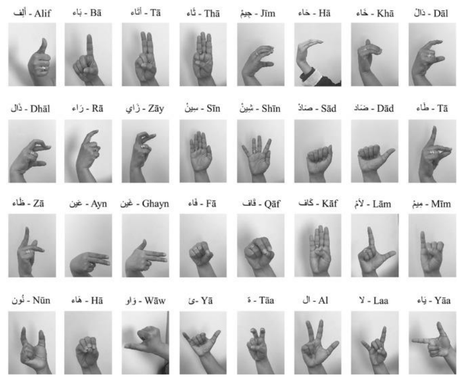
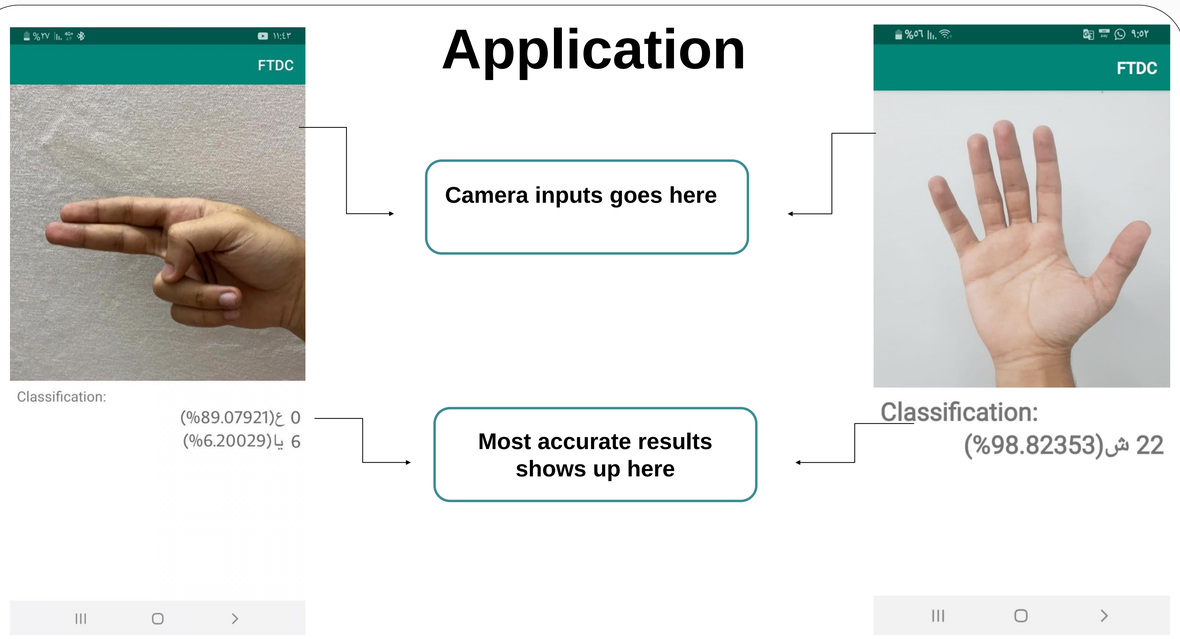
Abstract

We all want to communicate with deaf people but not everyone knows sign language. Therefore, We designed a mobile application capable of recognizing Arabic sign language alphabet (ArSL) using deep learning, We have used a fully labeled dataset of Arabic Sign Language consists of 54049 images for the 32 Alphabet collected from 40 participants representing different age groups. Also we have done a various image embedding to be share with interesting researchers.

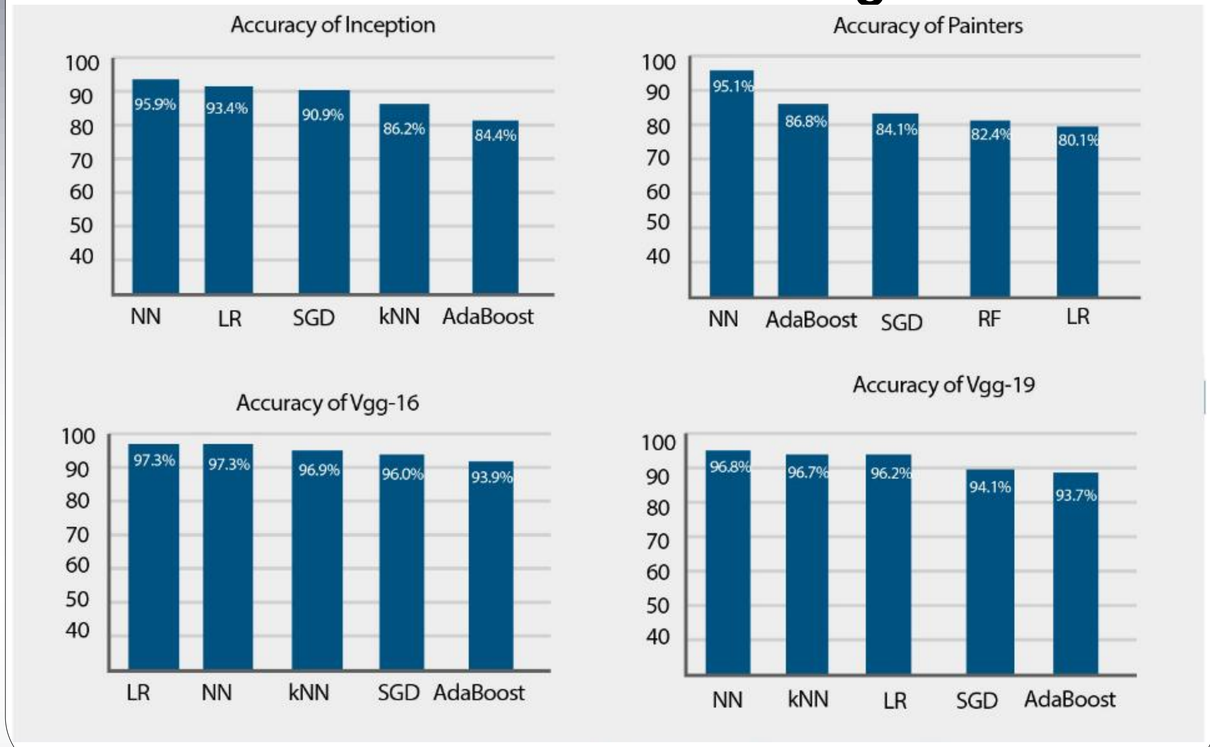


https://data.mendeley.com/datasets/y7pckrw6z2/1

Application



Results of embeddings



Tools Used in the project

Firebase TensorFlow Teachable Machine orange

Contact information

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