Data Collection

We collected data using GitHub pre-built project links and Kaggle. The dataset includes sign letters from Alif to Yeh. The specifi
https://www.kaggle.com/code/kerneler/starter-pakistan-sign-language-dataset-c872f78a-1

Idea

Our idea is to create an application to convert sign language to audio using different converters. It will first convert sign languag

Target Audience

Our target audience includes companies like KFC, McDonald's, and other stores in Pakistan that may benefit from this applicati

Work Done So Far

We have collected datasets from various resources and analyzed potential solutions to address key problems. Additionally, we

Problems Faced and Their Possible Solutions

1. What type of language should be chosen for sign language? Solution: We chose Urdu.
2. In which text should it be converted? Solution: We chose Urdu text.
3. Which audio should be produced? Still undecided.
4. How many converters do we need? Currently under investigation.
5. Which converters should we use for image-to-text and text-to-speech conversion? Still evaluating options.

Team Contribution

Our team consists of two members. We consulted professors for guidance, collected datasets, and created a repository. While v

Future Work

1. Finalize the audio format and language for output.
2. Select and optimize converters for both image-to-text and text-to-speech conversion.
3. Improve the application’s architecture to ensure efficiency and scalability.

Improvements Made in Model Architectures

We are currently exploring ways to optimize memory usage and processing power. Although a readymade model was used initi