Real Time Conversion of Sign Language to Lao Text

Dr. Xaythavy LOUANGVILAY

Dr. Savath SAYPADITH

National University of Laos

Real Time Conversion of Sign Language to Lao Text

According to the 2021 report by the United Nations Development Programme (UNDP) of Lao PDR, over 80,000 people in Laos have disabilities, specifically hearing impairments.

We proposal to help Lao people who are deaf and mute can read text are converted from hand gestures.

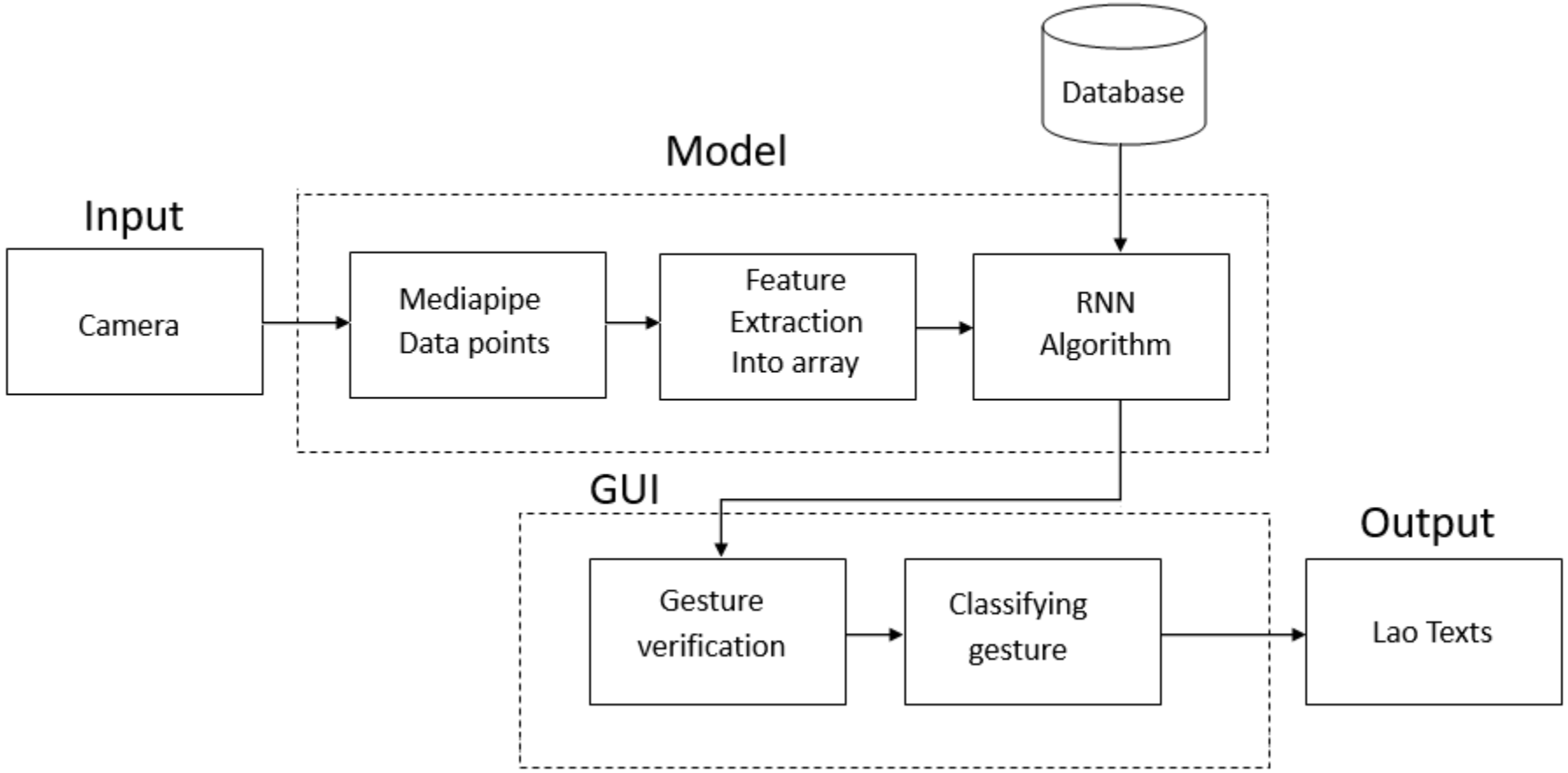
Proposed Method

- The proposed method uses computer vision and deep learning methods
- MediaPipe by Python
- data pre-processing, label, feature generation and LSTM

Proposed Method

- The proposed method uses computer vision and deep learning methods
- MediaPipe by Python
- data pre-processing, label, feature generation and LSTM

Proposed Method



Architecture Diagram

Impact

- Applying computer vision and deep learning methods
- have the potential to significantly improve communication for deaf and mute people individuals and reduce the barriers to communication with the rest of the country.
- Collaborative with other research in ASEAN region and etc

Output/Outcome

- Applying computer vision and deep learning methods
- have the potential to significantly improve communication for deaf and mute people individuals and reduce the barriers to communication with the rest of the country.
- Collaborative with other researchers in ASEAN region and etc.

Conclusion:

- We proposal to help Lao people who are deaf and mute can read text are converted from hand gestures.
- The proposed method uses computer vision and deep learning methods
- have the potential to significantly improve communication for deaf and mute people individuals and reduce the barriers to communication with the rest of the country.
- Collaborative with other researchers in ASEAN region and etc.