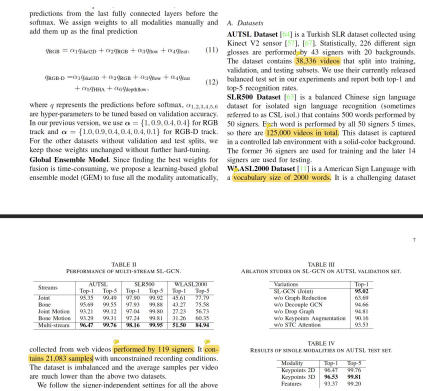




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Description & Purpose



- We implemented an American Sign Language to English Interpreter.
- Our team sought to bridge the communication gap between ASL signers and English speakers.
- Our hope for the project was a program that could take a video of a series of ASL signs, and output the interpretation in English, allowing easy ASL to English transcription.
- Our final proof of concept can successfully interpret a series of ASL signs and output grammatically correct spoken English for the 13 signs we support.

Uploaded Videos

Car I have

School you go

Split videos to interpret using models

Car I have

School You Go

Interpreted Results

Interpreted String:
school you go

English Translation:
you go to school

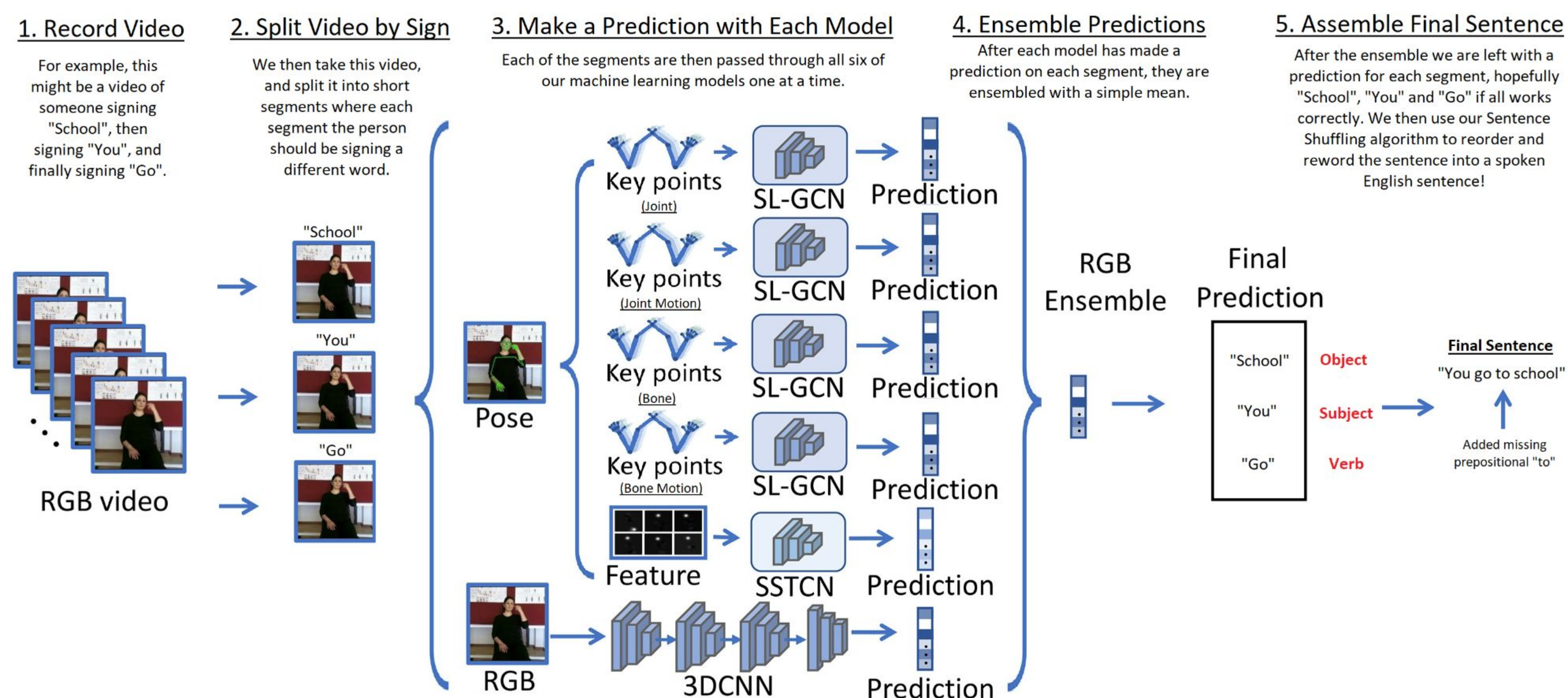
Word	Average Accuracy
school	38.99593965697204
you	27.866194285219535
go	62.94776875626121

Interpreted String:
car I have

English Translation:
I have car

Word	Average Accuracy
car	36.36178918313044
self	41.26653471495981
have	62.93134746616386

Design



Ethical & Intellectual Property Issues

Ethical Issues

Videos obtained from the user are used only for the interpretation process and are disposed of accordingly to maintain user privacy and confidentiality.

Intellectual Property

Our project incorporated and built upon work done by Songyao Jiang and others. Their repo is licensed under the Creative Commons Zero v1.0 Universal. Therefore, we can only use our project for academic research and published versions must include a reference to the origin of the code.