

REAL TIME SIGN LANGUAGE DETECTION SYSTEM

...

USER MANUAL

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ACKNOWLEDGEMENTS

The advanced internship was an intense journey and taught me a lot about perseverance, dedication, coding and AI. I want to extend my warmest thanks to my mentors, Ms Smita and Ms Shivani, for guiding me through and allowing me extensions at times. I would also like to express my gratitude for Mr Ken's helpful suggestions and involvement. My parents, obviously, come next for motivating me when the internship was challenging me and supporting me and allowing me to avail this amazing opportunity. I also thank my fellow interns for inspiring me with their ideas. Extended thanks to Nicolas Renotte on YouTube, from whom I learnt my backend code.

ABOUT ME

I am Riddhi Chauhan, and I am the creator of this (app). I am very passionate about finding ways to contribute to my society, and I hope that this website can help with that. I also like playing the piano, reading, and writing. I am an amateur coder and learning more every day! I am sixteen years old. I take inspiration from all the people around me, as each show different strengths (such as loyalty, determination, perseverance) and traits that I look up to and hope to embed in my daily life.

ABOUT MY INTERNSHIP

This was my first time at an internship, let alone an AI one. Before joining, I only knew the absolute basics of python and was very unsure of myself when it came to coding. However, with the resources I used to build my project, I've found coding much less intimidating. I also learned a lot about perseverance and dedication through the internship. Additionally, I learned how some very complex tasks such as voice recognition are not that hard once we know the techniques. I am very glad that I was a part of this internship, even if some parts were more challenging than others (this helped me practice my hardworking skills.) I would love to be a part of something like this again!

ABOUT THIS APP

The app can be used to (at the moment) translate American Sign Language into English; this will make it much easier for signers to communicate with others; the detector is real-time, giving effective and accurate results. One may also use this application to practice sign language to improve. This app aims to make signers feel more able in their community while teaching the community about this intricate and necessary way of expression. The app has future updates planned, including adding other sign languages, making the app more user friendly, and adding more education tools.

Real time sign language detection.

Here you can detect and learn the American Sign language!

Detect here

Symbols

User manual

About and contacts:
Shows about the app and
contact information

About and contacts

User manual opens
this document and
talks about motives
and how this app
works.

Real time sign language detection.

Here you can detect and learn the American Sign language!

Detects here detects the american sign language, numbers and common expressions.

Detect here

Symbols

User manual

About and contacts

Symbols shows an image of the american sign language.

DETECTOR:

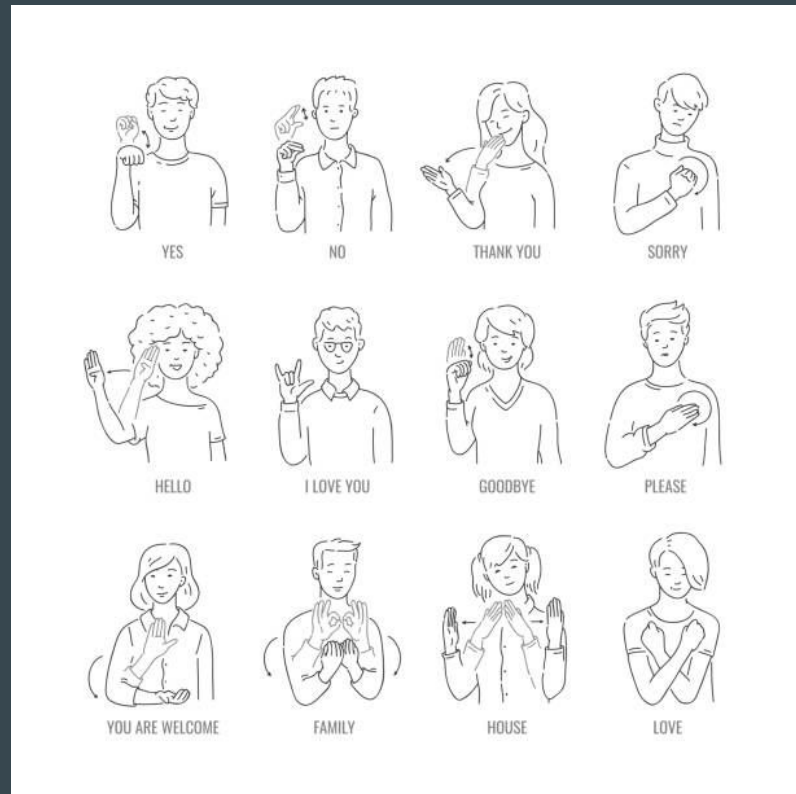
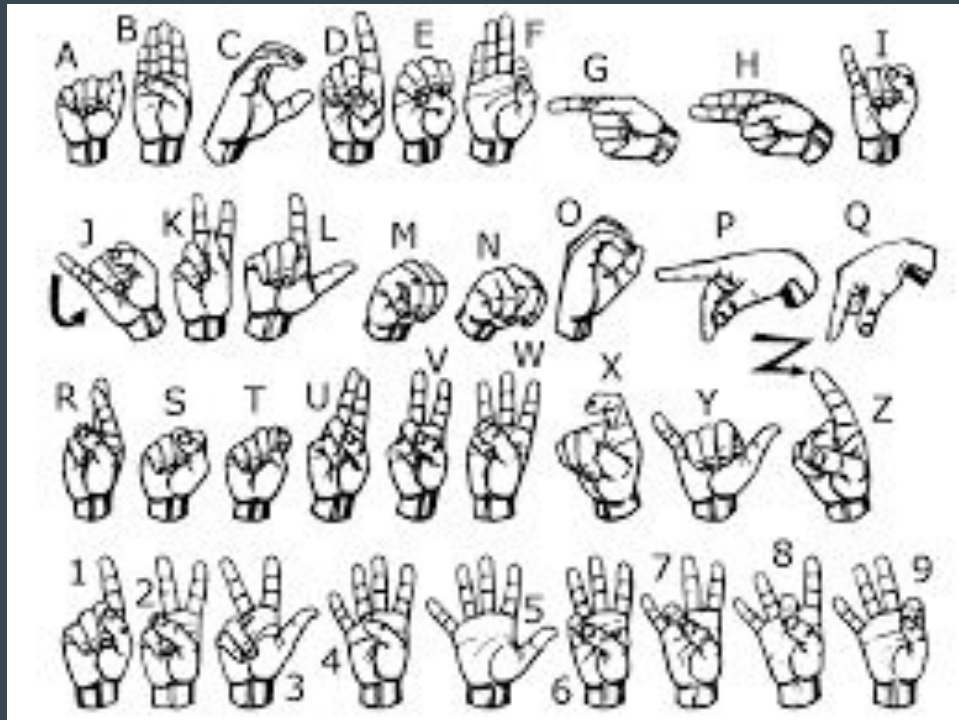
The detector uses your camera to detect the motion of your hands, the blue bar would then display what letter/expression is being detected. It detects both hands, and so you can use your dominant hand!

PRESS 'q' to close the detector.



CAMERA

American Sign Language



LIST OF ELEMENTS DETECTED

'hello'

'thanks'

'Sorry'

'yes'

'no'

'goodbye'

'please'

CONTACT INFO:

If you have any doubts, queries, or suggestions, please don't hesitate to contact me here:

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