Computer Vision Project

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Topic: Communication application for sign language

I think a good use of computer vision technology would to be create an app that when recording a person who is using sign language the program translates the motions and outputs what they are trying to say in the selected language. This would allow those who do not know sign language to be able to communicate with those that can and use it as their primary form of communication. The app would use the camera on your phone to record in which it would identify the needed motions and or positons of the person’s hands and use those to try and translate them onto the person’s screen. It would use the location of one's hands in relation to their body to also due to sign language involving more motions than just hand motions.

Goals:

1. Detect human hands.
2. Compare positions of hands to body
3. Use database of hand motions as reference to compare what is being communicated
4. Display predicted word on screen.