**Tell us what your idea is.**

*Describe in 250 words what the feature or service will do and how you’ll use Machine Learning to push the bar:*

Google Translate provides state of the art services for translation of different languages in auditory form (speech, recorded audio, captions etc.) and visual form (printed/written on signboards, hoardings etc.).This provides a great service for people who can hear and speak one of the languages but does not account for people who cannot hear or speak at all. The idea is to use Machine Learning and Computer Vision to develop a system which can convert sign language and render it as an audio in selected language on the other side. Per say, it will treat sign language as any of the other languages which can be translated.

**Tell us how you plan on bringing it to life.**

***Describe where your project is, how you could use Google’s help in the endeavor, and how you plan on using On-Device ML technology to bring the concept to life. The best submissions have a great idea combined with a concrete path of where you plan on going, which should include:***

* *Basic code can be made for classifying sign language symbols using a simple classifier but the classifier needs to be reinforced or even replaced to increase the accuracy.*
* *Google can help by providing:*
  + *Tools and software (if needed) (except what’s open source)*
  + *Providing technical mentorship with AI,ML and CV*
  + *Providing help with integration to the existing Translate App(if found viable)*
  + *Help with building a sign language database*
* *The Timeline:*

**Tell us about you.**

**A great idea is just one part of the equation; we also want to learn a bit more about you. Share with us some of your other projects so we can get an idea of how we can assist you with your project.**

I am currently pursuing my B.Tech. in Electronics and Communication Engineering from VIT Vellore.I am an avid problem solver and a tech enthusiast.I have worked on various technologies from electronics to android to web and cloud.Some of my most proud projects include Autonomous UAV and UGV,Driver Monitoring System, Bank System,Smart Voice Assistant (something like Hey Google) and an android app named Wireless(used to use phone as keyboard for PC, can be found on Playstore) among others.

Some of my projects can be found on github: [https://github.com/coolpulkit99](https://github.com/coolpulkit99/transl8)