**\*Please make a copy of this document and include this in your GitHub repository for your submission, using the tag #AndroidDevChallenge\***

**This idea can be either included in Google translate or can just be created individually. While Live Captions assists users, who are deaf and or hard of hearing, the SL (Sign Language) community could use a translation tool. This could be applied as a Machine Learning tool fluidly with an**

**on-screen display of translated ASL (American Sign Language) text. There are an estimated 300 sign languages in use around the world. In America, the number of ASL users is not precisely known, as an American census has not been compiled since 1974. But after research, this number could range from 500,000 to 15 million according to “How Many People Use ASL in the United States? Why Estimates Need Updating” by Ross E. Mitchell, Travas A. Young, Bellamie Bachleda, and Michael A. Karchmer at Gallaudet Research Institute Gallaudet University, 2005. Another article called “Bill Passes Requiring Sign Language Students Receive Credit” in Tennessee legislature backs up evidence of a growing acceptance and use of ASL. That same article also states that in Tennessee, 500,000 Tennesseans are deaf or hard of hearing and utilize ASL to communicate. The last piece of evidence to prove growth of sign language is the expected rise in demand of ASL Interpreters due to increasing use of video relay services which allow people to conduct online video calls according to the Bureau of Labor Statistics. So, with its growing acceptance and use around the world, the potentiality of having to communicate with someone through Sign Language could become more and more of a reality.**

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

**This project is in the early stages of creation. All of my ideas at this point are strictly theoretical. My plan is to, with Googles help design an Application or Addition to Google translate that detects and interprets sign language visually and translates it digitally on-screen, in text for Android users. This incorporates On-Device Machine Learning technology by creating a smoother communication process between fluent users of Sign Language and beginners. Bringing it to life could be done by creating a commercial or skit that conveys sign language as a legitimate language used to build knowledge and happiness. The timeline could be set up with February and March spent developing & testing out the application. April can be spent primarily marketing the product while still sharpening the edges of the application so as to be ready for a May 1, 2020 launch.**

*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:*

* *(1) any potential sample code you’ve already written,*
* *(2) a list of the ways you could use Google’s help,*
* *(3) as well as the timeline on how you plan on bringing it to life by May 1, 2020.*

**I am 27 years young. I am an Air Force veteran. I a student at the Hillsborough Community College Training Center. I have, in my time both directly and indirectly noticed the continuous increase in demand and use of technological devices. I think the uses of technology have their positives and negatives, but I am an optimistic/realistic type of person. Increasing the chances of every single person to be able to learn and communicate is the foundation of what can be accomplished in the future. Some of my other projects include an Application that sorts and displays your 10 most used Apps because statistics show people only use about 10 Applications daily. These Apps would still be able to be managed through user customization. Another idea would include an Application that is designed for parents who are buying there child’s first phone, this Application can limit time usage and enable parental control. This idea came to as many problems such as eyesight & neck injuries are occurring more and more frequently with users. My last project is an intriguing idea for a dating app that draws undivided attention to personal characteristics but still acknowledges the need for physical attraction.**

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.

**Next steps.**

* Be sure to include this cover letter in your GitHub repository
* Your GitHub repository should be tagged #AndroidDevChallenge
* Don’t forget to include other items in your GitHub repository to help us evaluate your submission; you can include prior projects you've worked on, sample code you've already built for this project, or anything else you think could be helpful in evaluating your concept and your ability to build it
* [**The final step is to fill out this form to officially submit your proposal.**](https://docs.google.com/forms/d/e/1FAIpQLSe43koQL33IzgxXQl29Ex3AhFuqd4hQzxLiXREqwRkDGtx1vA/viewform?usp=sf_link)