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

**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:*

QuietSense is a revolutionary product that will transform how people who use sign languages to start a call, watch a movie on Netflix on TV, interact with others easily. This will be more like a special Android Accessibility service that can be used by Android phones, TVs or any Android device. ML is used to study how people interact with the device to do a particular action as well as to translate sign language to English or any language. Anyone with a camera can communicate easily and their voice will be heard to the world in a new way.

**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:*

* *(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.*

1. My project is in the research phase. Learnt how I can make use of tools like *MediaPipe* to leverage real-time tracking capabilities. Played around with Firebase ML Kit, to classify images that will help me to convert sign language to English and build my own database to start actions like calling someone, watching movies, open an app, etc. I really want to help people with disability and make the world a better place to live.
2. I do not have that much experience in ML but I do know that I can learn anything quickly. I could use Google’s help to bring this project to life by providing me in-depth knowledge and direction in connecting different pieces like setting up the infrastructure so that anybody can use this product/service, reach out to people who really needs this service and help them feel better. The possibilities will be endless. Anyone can just use sign language to speak up in social media, get a new voice for them, and do more. Please help me in making this world more accessible.
3. The timeline:
   1. Feb - Speak with people about their current difficulties and lay the foundation for creating a model and training with sign language dataset. Research on making a dataset for understanding a particular movie just by using sign language, train a model for that too.
   2. March – Basic app that will convert sign language to text and respond to some basic actions like call my dad, mom, etc. Also train ML model to understand sign language and custom actions
   3. April – Polished app with working features and voice feedback & text on screen that will start a call to someone, call emergency services, watch a particular movie (understand a movie), teach something to QuiteSense. Also explore about integrating with other accessible devices from our app.

**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 just an small and humble Android Developer/Software Engineer. I have a strong passion for technology especially AI/ML and AR/VR. I haven’t had the opportunity to work on the project I like but I do know that I really want to help people with disability and make the world a better place to live. The amount of sadness they go through each day is a lot. God has given us the ability to see, hear and speak. So, let’s help people who lack them and make them happy.

* I have worked on the first BlackBerry Android device called Priv. Created the “Do not disturb” mode and “Level 1 intrusive alert”.
* Worked on creating a FB’s first consumer electronic product called “Portal” for creating Out of Box Experiences and Android performance monitoring and profiling.
* I also have worked on creating an Android companion app for a smart bike company called Vanhawks which was used to control the lights and provide navigation to the users.
* Worked on side projects of my own like creating a startup called Custofood which is a restaurant app suite containing POS app, Chef app and consumer apps, all using android. Also some casual projects while learning Android on the go.

I am still learning and always loved Android and its potential. It is the only OS that is available for anyone to jump quickly and create something with absolutely no cost or without the need of special computer like Mac. This was how I created my first android app to catch a hostel/residence thief who was stealing people’s phone by sounding an alarm when it was unplugged from the charger.

I always believe in exercising good intentions. If we think good for others and do good, then God will reward you somehow. Even if I make 2 people happy, then I will be happy for fulfilling my intentions.

**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)