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:

ImagioChat is a social media platform that currently supports a basic user to user chat service. This application is intended to provide small businesses and individuals with access to an interactive experience by allowing users to transmit secure business documents, money transfers (P2P or B2B), personal identification information (PII), travel documents and more. ImagioChat's user interface and user experience is intended to be similar to WhatsApp, Facebook and Instagram, which are the existing social media platforms that inspired the concept for ImagioChat.

I would use Machine Learning to improve this application's integrity by allowing the application to monitor a users actions(Gestures for example) and even the conversation messages users send and receive in order to maintain a safe, friendly and transparent chat experience. For example, a user drafts a message that is inappropriate, vulgar or threatening. I would like to use Machine Learning to display a prompt, before the user sends a message, asking the user that drafted said message if they are sure they would like to send that inappropriate message to the intended user. If they select, YES, the application with temporarily suspend that users account as well as provide reasoning why and if they select, NO, the app can suggests new ways for the user to express their thoughts and feelings with less intimidating language or they can continue drafting their message as normal.

This feature is intended to limit cyberbullying, providing a constructive learning experience in real-time in reference to how we communicate with one another online and to provide an accessible way for individuals with hearing and/or other sensory conditions a way to interpret digital information just like a person without hearing and/or other sensory conditions.

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 a timeline on how you plan on bringing it to life by May 1, 2020.*

The project, ImagioChat, is currently in the development phase still. The application supports logging with an email and password using Google Firebase, an inbox feature with user to user messaging. ImagioChat is written using Kotlin code, a code sample is included in the Github repository. I could use Google's help with the following features:

- **Group messaging**
- **Video Calling**
- **Improving the User Authentication and Registration to support Google Sign In, Twitter Sign In and Facebook Sign In.**
- **Emojis and Keyboard Management**
- **An improved Chat UI that supports document attachments, payment transactions, GIFs, Camera, Gallery, Audio, Location and Contact Sharing, Games, Music and support to message transmission prompts based on user's word choice.**
- **Settings interface, User Profile, and Push Notifications**
- **User Feed and Stories**

Project Timeline:

February 14th, 2020 :

- **Design out all screens, Views, Activities, Fragments and features using Adobe XD or Sketch, if provided.**
- **Implement Group messaging, Video Calling and improved User Authentication and Registration screens.**

March 13th, 2020:

- **Implement Emojis and Keyboard Management feature as well as the improved Chat UI that will support document attachments, payment transactions, GIFs, Camera, Gallery, Audio, Location sharing, Contact sharing, Games, Google Music and message prompts for user word choice and interactions.**
- **Implement Settings, User Profile and Push Notifications features.**

April 20th, 2020:

- **Implement User Feed and User Stories features.**
- **Implement Application Security features**

May 1st, 2020:

- **Present the ImagioChat at Google I/O**

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.

My name is James M. Jones, however, I prefer to go by my nickname, Gio. I am 25 years old, I live in Atlanta, Georgia and I am a Junior level Android Developer that is currently working on building my own social media platform, ImagioChat. I started designing and developing Android apps 3 years ago in Raleigh, North Carolina while attending a software development bootcamp at The Iron Yard Code and Design School. Shortly after, I relocated to Atlanta, Georgia where I established my own small software business, Imagio Media Development Studios LLC as well as being a recipient of the Google Developer Challenge Scholarship of 2018.

All of my applications, outside of ImagioChat, have been test projects. I am familiar with using Java, Kotlin and a framework, Flutter in order to build UI components and simple functionality for Android apps. During my experience with the Google - Udacity Mobile Web Specialist Nanodegree, I was able to successfully build a 'Restaurants Reviews' application that supports filters through an index of restaurants using HTML, CSS and JavaScript code. I successfully graduated from the online program and received my nanodegree in August of 2018.

After completing the Mobile Web Specialist Nanodegree program, I was able to obtain a job with Anthem Inc. I was a Configuration Engineer II on their IT team and I was responsible for migrating and merge code libraries on Linux and Windows servers as well as beginning an Android app project for the Configuration Management staff. This project did not see through to completion as a result of the company downsizing and laying me off. I was using Flutter as my resource for developing the Anthem IT Configuration Management mobile app. Currently, I am working as a Technical Support Specialist role with a company called TTEC, formerly known as, TeleTech Corporation. I manage healthcare subscriber information and data as well as provide technical support for subscribers experiencing issues using the company website, logging into their online accounts to access sensitive personal information as well as delivering a beyond exceptional customer service experience.

Lastly, I am excited to submit my application idea to Google in hopes of finally gaining exposure to a once in a lifetime experience and being a part of a timeless and helpful community of like-minded individuals in the world of Android Development. I am deeply passionate, dedicated and committed to learning how to build complete, functional and unique mobile app for Android devices in the future.

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.**