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:

My project idea is to implement a set of reference applications for any field where scientific reasoning is involved: mathematics, physics, chemistry, economics, econometrics, architecture and so on. To do this, I borrow some principles emanating from "artificial intelligence" and "machine learning", allowing machines to be able to reason autonomously, generate and solve any subject of reflection well suited for scientifics fields.

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.*

My project is in prototyping phase. I partnered with a colleague to help me achieve it. The project is evolving in a reassuring way and we are convinced to carry it out. However, we also hope to do better with the help of Google that we accept by registering to the event "AndroidDevChallenge" which is currently launched for "machine learning" projects promoters. Indeed, we realize this project taking into account an evolutionary and economic model. Trained as application developers, we had no choice but to start our project as an application. As we moved forward, we quickly realized the importance of artificial intelligence and "machine learning" in this issue. We have then implemented artificial intelligence from scratch and our prototype proves to be practical for mathematics and chemistry. From there, we plan to adapt it to secondary school

education in our community to make it a business and invest the income in future perspectives. This adapted version of the prototype will work through activation fees, which will allow us to evolve into four future versions of this product:

1- The mathematician: an application for the teaching / learning of mathematics.
2- The physicist: an application for the teaching / learning of physics.
3- The chemist: an application for the teaching / learning of chemistry.
4- The scientist: a fusion of the three applications mentioned above.

Once these four versions have been launched, we will explore the fields of research, economics and robotics. To better adapt our prototype to our community, we entered into a partnership with a local incubator to finalize our prototype in January 2020 and make a launch. We have also found that we can evolve into other areas such as scientific research, economics, econometrics, and robotics later. Since our adventure is very long, we see in Google's "AndroidDevChallenge" event, a very interesting collaboration opportunity to quickly follow our established path. With Google, we are seeing our projects evolve dramatically in regards to the adoption of attractive mobile interfaces and graphics. We also see from this collaboration some exchanges of experiences in algorithms, libraries well adapted to translations, calculations, study, scientific research and robotics. As for the launch of our application before May 2020, we are reassured to comply with this date, since we aspire to launch our prototype adapted to secondary school education before April 2020. All that said, we are waiting for a favorable response from Google for a collaboration.

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 Ayoula LOUKOUME. I am passionate about science. I graduated in Physics and Computer Engineering. I had four years of experience in teaching before I trained in Computer Science. I'm really proud every time I apply my science knowledge to programming and this project is proof of that. My colleague is Cedric KONDI. He graduated in BCA (Bachelor of Computer Applications). Currently, we have beenworking on a statistical system of vocational guidance, and at the same time, I am designing information systems for an agri-food agency. Our exchanges of thoughts on this project are very interesting, we are doing a good job together and I am completely reassured that together with Google, we will do the right thing.

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.**