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:

Application name: GONDES.ID

First, I want to give an introduction. At present, I focus on developing mobile app e-commerce, which is named GONDES.ID. It targets rural areas, which aims to help BUMDes, MSMEs as well as its society to be prosperous. It's corresponding to the Indonesia government program, which focuses on industry 4.0. So far, this app has been downloaded by 500+ users. Here is the Playstore link: LINK. With big potential, I continue to develop this app to achieve the goal: economic prosperity for rural society.

Feature to be achieved: dynamic content by user history and preferences, product's content plagiarism detection, purchase error detection, smart search, smart reply.

I want to use machine learning to build dynamic users' content, corresponding to their app history and preferences. A feature like product's content plagiarism detection likewise needed because of all this time, numerous cases occur. That is inspired by Shutterstock that has a powerful feature to detect image plagiarism, also StackOverflow that can mark a question as duplicate.

Another challenge to solve is purchasing error. For example, users are ordering a shoe, but the size is not exact when it delivered. It seems can be solved using machine learning since the app identifies errors using the history record data sets.

The 'smart search' feature is also necessary. A fast, accurate, and robust searching result will give the most satisfying user experience. Last but not least, the feature to be offered is 'smart reply'. It can help interaction between seller and buyer more efficient.

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.*

Sample Code

For now, I'm yet recognize anything about machine learning, so I have not implemented that feature at all. I yet have a sample code for those features, but I have done writing code for the core app and its pushes on my private repository on GitLab. I will show it if the Android Dev Challenge committee wants to see for review purposes.

Google can help me with:

1. Teach fundamentals machine learning.
2. Give the best tips and practice for Android programming and UI/UX.
3. Data sets for development purposes.
4. Help to push and accelerate my self on this project.
5. Help to promote the app.

*If any other help from Google, then I will appreciate it.

Timeline:

December 2019, Starting for fundamentals machine learning. Then formulate which rule can be implemented into the features.

January-March 2020, Focuses on developing all features. Work with UI/UX, API, and machine learning.

April 2020, Continuing to complete all works and then testing bugs. If there are still problems with the app, there is still time left to solve it.

May 2020, Showcasing the 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.

About me:

Hi, my name is Andri Sulistyanto, 23 years old. I am an Android Developer for an e-commerce startup named GONDES.ID, who lives in Yogyakarta, Indonesia. I start learning Android programming back to 2016 when I was a student at Sebelas Maret University. Then in 2017, I tried to participate in Google's Android event. I'm interested in technology's topic, such an Android, Linux, e-commerce, machine learning, and startups.

Projects that have been done:

I have worked on several projects. My final project for University is a web app which is a task management system using scrum methodology. I have also worked on mobile app projects for education such as online tutoring. Other projects that I have worked on include government projects and private companies.

My focus:

At the moment, I focused on developing my startups, which is GONDES.ID and PoS (point of sales) app. I also continue my studies at Amikom University Yogyakarta.

You can find me on:

Twitter: @leosird - https://twitter.com/leosird

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