**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:*

The idea is to add AI abilities for the Google’s map walking/Cycling options to \*enhance\* the experience of millions that walking/cycling whether it is their commute, a hike, vacation or sport or other reason.

Using the on-mobile AI we can suggest the user to make its walking/Cycling experience unique and fit to his needs. E.g.:

1. Clean air routes based on rush-hour car traffic, facilities, trees/shadows, etc. Air pollution is very critical these days.
2. When on vacation/trip – suggest routes that are beautiful/main-attractions/main-street (“add 15 minutes to your route for the resutrant you chose… 😊).
3. People who are doing walks/cycle as sport – can enhance their cardio or suggest different routes and create “new training class”.
4. Commute – give user wizard to choose preferences for his commute (quite streets or beautiful views, crowded or route with maximum shade from the sun, clean-air route or random, etc).

**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.*
* Project isn’t implemented and just a theory though I’m familiar with AI theory, Pytorch and other aspects.
* Google’s help to integrate it to Google maps.
* On-Device ML – straight forward as the route will be always up-to-date with user preferences and based on previous routes, he/she took.
* Timeline – 2 months to build the model. 2 months to integrate. 1 month for testing.

**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.

* Married + 1.
* I have B.Sc in Electrical engineering. Wrote an Android app as part of University project.
* Works full time as SW engineer in Android Set Top box company.

**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)