



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

In today's fast paced world, human beings are more prone to diseases and most of the doctors suggest patients to undergo medical tests. Since every one will not be able to understand the medical diagnostic reports. For this, they've to depend on a medical professional to know exactly what the report says.

We have planned a solution which will convert the medical diagnostic report to a human understandable format . We plan to build app by using google ML kit and AI to interpret these medical terms and provide understandable text along with a visual representation and in the future we plan to support users local language worldwide.

Describe in 250 words what the feature or service will do and how you'll use Machine Learning to push the bar:

We are still in the early stage of development, our app has three modules

- 1.Extracting the data from the report.
- 2.processing the extracted data.
- 3.Visual and text representation of the processed data.

Extracting the data from the report:

The reports will be in different formats our plan is to extract the data using the image of the report and also an option for the user to enter the data manually.

Processing the extracted data:

The extracted data will then be passed to our neural network i.e our model.tf file and get the evaluated result.

Visual and text representation of the processed data:

Based on the result from neural network we display an image and explanation of the report in the local language of the user has selected.



Currently we display and image later on we are planning to use graphical engine so that user can have a 3d view of the organ.

Any potential sample code: we have integrated Firebase image to text api and also we are working on the other modules as well.

List of the ways you could use Google's help:

We require guidance in the data extraction module i.e the best way to extract data, modify and structure the data before passing to our neural network.

The next module we need some guidance is the representation of the processed data.

The timeline on how we plan on bringing it to life by May 1, 2020

December 15, 2019 - We start working on our first module i.e data extraction which should be completed by mid January with some guidance from google developers team

Early February - Technical Expertise: We'll start working on our ML kit for our data mostly how to structure and classify the data.

February - April - Development work: We'll continue with our third module i.e representation of data along with integration on device ML.

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.

Tell us about you.

We are software engineers working for a startup called gopazo. We have participated in many hackathons some of our achievements have been listed below



Some of our other projects and hackathons we have participated earlier:

IndiaHacks Fintech Hackathon: Won 9th prize for making an offline transactional payment app using NFC.

UnitedByHCL Hackathon: Build a digital Cheque system using BlockChain and secured as Top 10 finalist of the #UnitedByHCL Hackathon held on september 14-15 2017, at Old Trafford, Manchester, U.K from over 13500 participants.

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.

Next steps.

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- 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.](#)**