Tell us what your idea is.

With the availability of a lot of data points like personal food choices, different menu options at numerous food places, nutrition information about individual ingredients used in food preparations, food suggestions can be made to individuals based on their dietary requirements or their interests in customizing food or just try a new dish at a new restaurant.
User will be able to scan a menu to search from a wide range of recipes or automatically filter the dishes based on the restaurant selected.
For the initial development phase we plan to use Natural Language processing to recognize the intent and filter the responses based on the search statements/keys. Also use recommendation systems to suggest foods based on their preferences and dietary choices.
Also users will be able to view all the customization options that a specific food place can offer, simultaneously they can lookout for popular customization options voted by other users with similar dietary requirements or similar food interests.

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

Tell us how you plan on bringing it to life.

Project is currently in ideation phase and we plan to target the initial POC by Mid January
1. Sample Code for OCR used in a different project - https://play.google.com/store/apps/details?id=com.priyankanandiraju.pocketprompter&hl=en_US
2. We plan to use google dialog flow and firebase for the natural language processing, user authentication and realtime chat. And we plan to use google API's to get the location and restaurant information and trends if any. Also we would need some mentorship to drive the product towards the specific market.
3. Following is the timeline scoped for the project.
   - Jan 2020 - POC
     - Ability to scan a menu

- - Ability to perform ocr to convert image to text
    - Ability to filter the menu contents converted based on users dietary choices.
    - Ability to filter the menu from the restaurant selected.
  - April 2020 - Beta Release
    - Ability to collect live review about individual food choices and preparations
  - May 2020 - General Availability
    - Ability to create a group with users/friends
    - Ability to suggest foods for the created groups based on their individual preferences / choices

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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 a team of two people working on cutting edge technologies in different domains of Software Industry. We have hands on expertise in full stack development ranging from mobile app development to backend development. Being vegetarians, people with specific dietary requirements, we always struggled choosing our options when we travel or try food at a new place. So, we came up with this idea to overcome the problem of cautiously looking for specific food with personal choices/ nutrition values and all the ingredients in it.

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.

- 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.**