Al is your eyes

Project for CPSC 481 Alex Ho





About project

I'm passionate about building great mobile application that make people's lives easier. Therefore I create this application to help impaired vision people.

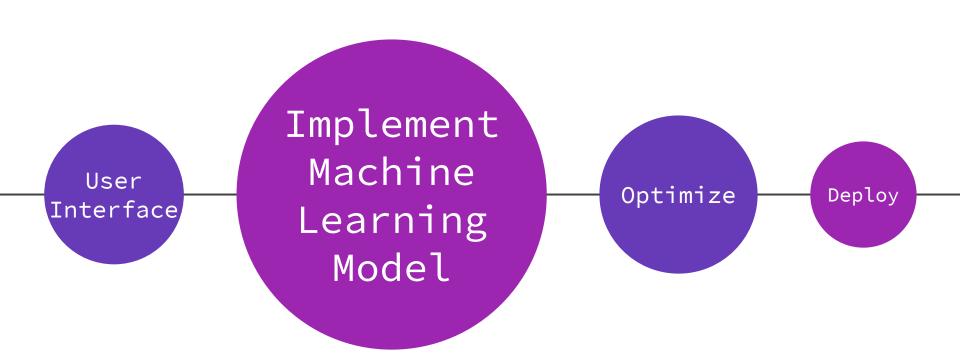
The application goals are simple and reliable.

IDE: Flutter framework, Firebase ML Vision API (Similar to Cloud AutoML Vision but pretrain model)

Language: Dart

Target platform: Android (maybe IOS in future)

Building Progress

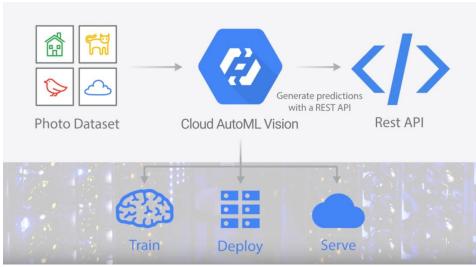


How to build Al model with Machine Learning?

Steps create Machine Learning Al

User uploads a photo for training data Upload to dataset via AutoML API Train & deploy model Create CSV of labeled training images Cloud Functions for Firebase Party Cloud Functions for Firebase Save labeled image to Cloud Storage Collect more images and re-train Save label metadata to Firebase DB





Collect data

Record video and then convert to images with labels

Cloud AutoML Vision

Use cloud AutoMl Vision to train model

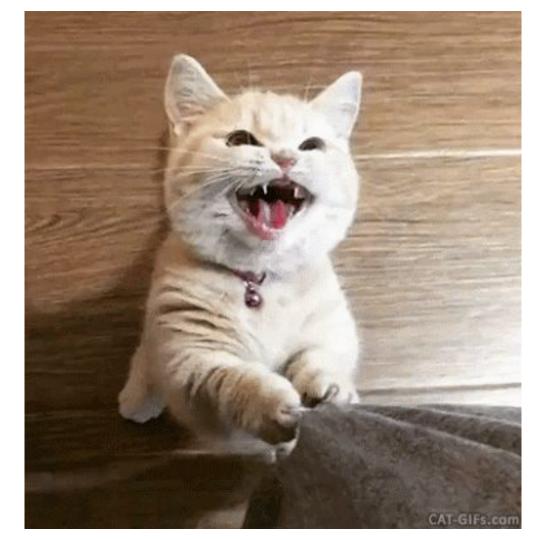
How application work in real life

Open application and tap on screen, then AI will say what is inside the camera.



DEMO TIME (use real android device)









Credits

Firebase ML Vision

Flutter Team, Google

Design and Develop

Alex, CSUF

Want to learn or contribute to this Project

https://github.com/hho114/
flutter ml vision

Thank you for listening!!!

