Part 2

OK. How to recognise a cat or dog? Easy - for the people but what the computer can do it? The easiest way is to use Google Photos (if you have photos with cats or dogs write cat or dog in search bar):) but we are developers - the easiest way isn't fun.

Let's do something which is not available straitly:

- 1. Open Google Cloud Shell
- 2. Go to folder with lab:

cd ~/gdgwarsaw2019/vision

Run:

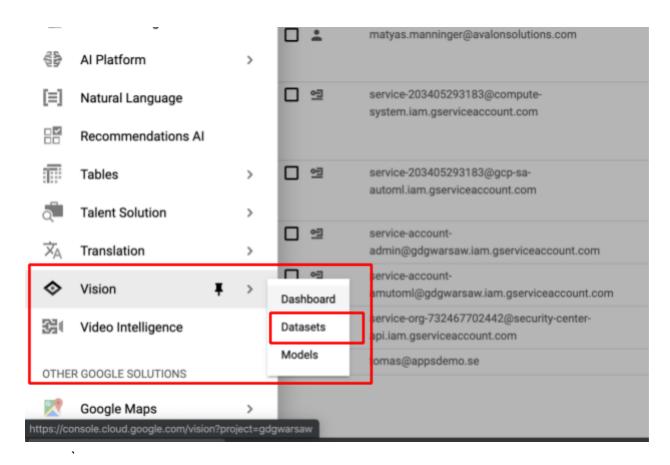
python visionapi.py

More information:

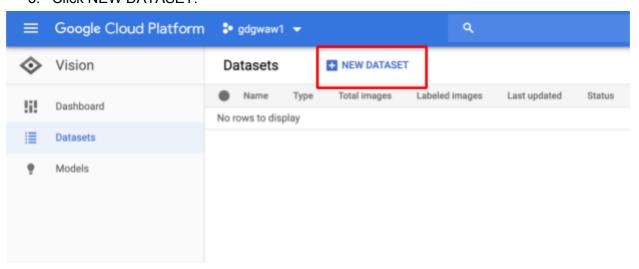
https://cloud.google.com/vision/docs/quickstart-client-libraries

Let's build own ML model which will recognize cats and dogs only. How to do it? Easy :)

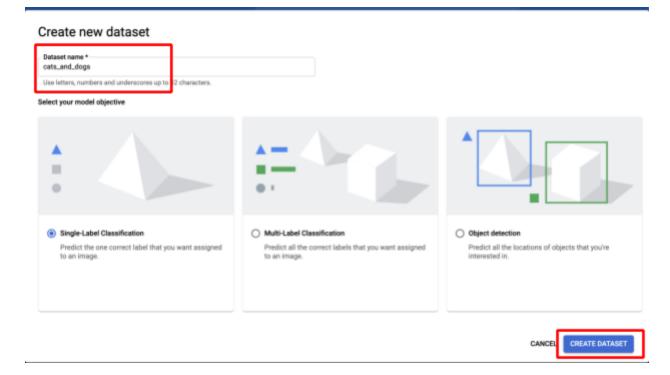
- 1. Login to https://console.cloud.google.com
- 2. Choose Vision and Datasets:



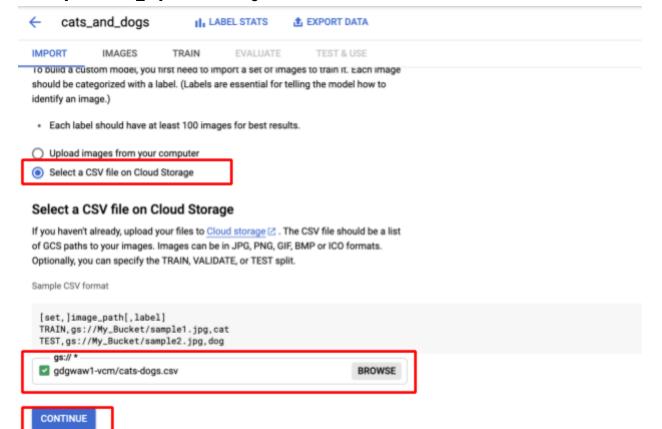
3. Click NEW DATASET:



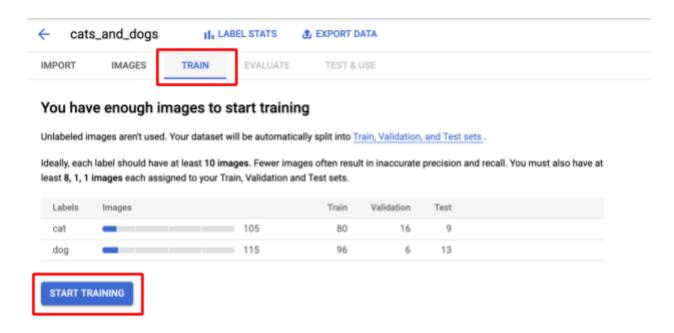
4. Name it cats_and_dogs and click CREATE DATASET:



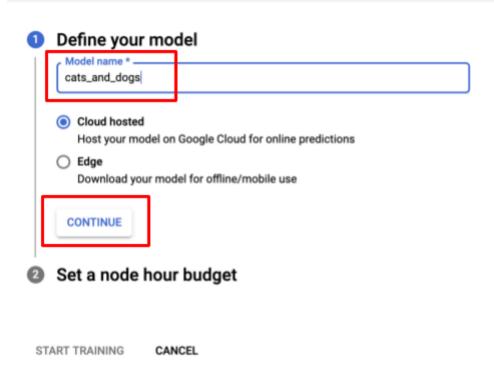
5. Mark **Select a CSV file on Cloud Storage**, write path to file with bucket name which is [PROJECT_ID]+vcm/cats-dogs.csv and click CONTINUE:



6. Select TRAIN and click START TRAINING



7. Fill the name cats_and_dogs and click CONTINUE



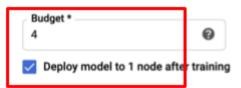
8. Change budget to 4 and mark Deploy model to 1 node after training

Define your model

Set a node hour budget

Specify the maximum number of node hours to spend training your model. If your model stops improving before then, AutoML Vision will stop training and you'll only be charged for the actual node hours used.

For cloud-hosted model. You can train for 40 node hours (per billing account) for free. Standard pricing applies afterwards. Pricing guide



Make your model available for REST API requests immediately after training. Deployment pricing applies.



9. Wait for four hours:)