

Daily Log

Monday September 16

Registered for a Google Cloud API account, and enabled the Google Cloud Vision API library for this account

Downloaded and installed Google Cloud SDK onto my computer

Tuesday September 17

(Not in school for most of class, because of a doctor's appointment - work done at home to compensate)

Ran initialization commands to get Cloud SDK up and running onto my computer

Set up GCP credentials for my project (got a private key for my project)

At home:

Tried to authenticate GCP using private key I received (adding to environment variable), but continued to get multiple authentication failure issues. Decided on simply putting the key into the file that I'm writing, because I'm only going to be writing one file.

Thursday September 19

Wrote code for actual logo detection using the Cloud Vision API

Worked through errors I was getting (mostly libraries missing, etc.), and finally stumbled upon an issue I couldn't solve in class - no billing account set up.

At home:

Added my parent's credit card number to my GCP account

Timeline

Date	Goal	Met
9/5/19	Be able to achieve basic text recognition and detection	Yes; Able to locate portions of text on certain pictures of food and read nutrition labels quite successfully
9/12/19	Find a way to get reliable text reading (OCR) for food products and perform shape recognition (can, box, etc.)	No; Minimal successful results in identifying food products based on a picture. Shape recognition not attempted.
9/19/19	Successfully set up Google Cloud Vision API to be able to successfully identify food products by logo	Yes/No, Cloud Vision was successfully set up on my computer, but was not able to identify food products yet
9/26/19	Finalize Cloud Vision to be able to identify major logos and begin implementation of barcode API	
10/3/19	Finish implementing barcode API and begin shape recognition	

Reflection

This week, although I did not produce a lot of tangible results, I still feel was successful in some regard. I was able to work through the errors I was getting for Google Cloud Vision API, and finalize its setup on my computer. I anticipate that I will have a couple more errors or problems at the start of next week, but by the middle of the week, I believe I will be good to go with regards to logo detection, and will be able to begin barcode recognition, which will hopefully go a lot smoother. As such, I think I am still on good pace with my project and not too far behind in terms of goals I want to achieve.