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Interim Status Report 1

The purpose of this report is explain what I have done so far and let my supervisor know what I did and make sure the project I did is on track. The report included the detail of what I done and what I didn’t finish yet.

9/16/2019-9/29/2019:

I download the images and mark down the detail of images in excel file, the information I record is:

Images name;

Does there has any caribous;

The number of caribou;

Is the image easy to identify caribou;

Does there has any animal;

What animal there have;

The date and time of image was taken;

The temperature of image was taken;

Some of information may not useful especially the last few one, but I just want to record more information from picture in case they will need.

I sign up account for four vision recognition companies but the Cloudsight because they change their policy that no free trial for user, so I give up to analyze this vision recognition API. And than, I submit first 100 images to these APIs and record the results from the APIs, in this step, I did not record all the labels that API given but I chose the useful labels. The useful labels are include keywords like “animal”, “mammal”, or “deer”, “bear”, “horse”. Sometimes these APIs did not recognize the caribou very well because the caribou is too small in picture or just show part of its body in picture, so the words approach to caribou will be accepted. I record the APIs result separately in four excel files, each of one include the image’s name, the valid label. If the API didn’t return any valid label, I chose the highest score label in it. The four vision recognition companies are provide the simple image detection function and most of results are from that API’s label, but Google also provide the object detect API, so I use two APIs that detect labels API and detect multiple objects API to check the image in Google Cloud Vision part, I record the result from two APIs separately in two column in excel file.

9/30/2019 – 10/13/2019:

I wrote four programs for each vision recognition companies API, the programs will automatic read image files and file’s name from my computer or cloud storage, than connect the API and submit the image, read the result form API and filter the labels by the keywords that I selected from previous step. If the labels has the target labels like “animal”, “mammal”, or “deer”, “bear”, “horse”, the labels will be selected and save to the excel file, if no label is match the keywords, the program will chose the highest score label and it will be save to the excel file. I also save all the return labels in the excel file but in another column in case I will need them in future.

So far I did the image recognition by myself and data collection from these APIs. I have enough data to do the next step that analyze measure the APIs accuracy.