Project Progress Report

1. **Which tasks have been completed?**

- The GCP cloud set up. Creation of project and enabling the Video Intelligence API and setting up a service account for the application to access the API and the video from the cloud storage.
- Installing Google Cloud SDK
- Virtual environment set up.
- The sample application provided by Google tutorials was tested.
- A simple python script was created to run the “Label Detection” feature on the video stored on the cloud storage. A first segment of the video and its label were displayed to see if the annotation was close enough or not.

2. **Which tasks are pending?**

- The video length was a short one for 3 minutes and worked. I have to set the timeout to a higher value and see if the simple code works for long videos or not.
- I need to test the Text_Detection feature to see if the annotation works for videos containing Text in them.
- Finally will have to annotate four videos, two from lectures, two from personal archives.
- Display the results in an informative way.
- Final report and presentation.

3. **Are you facing any challenges?**

- Setting the Application default credentials was giving a lot of trouble. The Compute account is given “Editor” Access by default, and after a lot of trial and error, I found that the access privileges have to be slightly more elevated for it.
- I am also having trouble getting the segment times correct. It looks like the version of Google Cloud SDK I have installed might be a bit old as some of the sample code had to be changed for it to work. This means getting the segment down microsecond is not working for me as it is not supported, and I have to find an alternative way.
- Finally, displaying the results. I am getting each video segment and the different labels associated with it, but the depth of detection I expect is not there. I will have to explore custom labelling instead of using the default.