

### **Please read the following notes carefully:**

- The upload.py file is the file containing the code of the model with the Flask API that is hosted on the server (web-service). This code must be run on the server, so it will not be runnable here. We provided the code to be able to go through it and visualize how things are on the server.
- The talking-signs-main folder is the repository on GitHub, this contains the mobile application code that we provided an apk link to download and run from it, so this code is also added to show how the app was developed but cannot be run as you will not have the needed platform and building tools.
- The FinalDocumentation pdf is the documentation we submitted a hard copy of.
- The dataset we created to test the model can be found in the ASLClassifierModel inside the Classes folder.
- The dataset we used to train the model with can be found through this link: <https://www.kaggle.com/grassknotted/asl-alphabet>
- The training of the model was coded and run on Google Colab, so we produced a python file named ASL\_model\_training.py. This contains the code of how the training process was carried out, but cannot be run; as it must be run on Google Colab. The model is already trained and saved so this code only runs once to produce the model that can be used like the asl\_alphabet\_application.py file one that exists in the ASLClassifierModel folder.

### **Please follow these instructions to run the mobile application:**

- Download the apk of the mobile application from this link: <https://drive.google.com/file/d/1SpJsv4e8SDSuTONGjnnatVhASv8pP6cE/view?usp=sharing>

### **Please follow these instructions to run classifier model:**

- Open the ASLClassifierModel folder and run the asl\_alphabet\_application.py file.

### **Please follow these instructions to run testing script of the web-service:**

- Open the ASLClassifierModel folder and run the testing.py file.