**ResNet50 Subsystem for Hand Gesture Recognition - Installation Guide**

**NOTE**: Before running this subsystem, you must first install the latest version of the following packages into your Python IDE:

* **H5PY**
* **Numpy**
* **Keras**

Additionally, please ensure that both the ‘**handsigns\_dataset**’ folder and the ‘**ResNet.py**’ file is in the same location. No additional file is required.

The code has been thoroughly commented, explaining what each function does and what certain lines of code represent. At **line 209**, near the end of the script, there will be a commented line “train\_model()”, simply uncomment this to build and train the ResNet model.

By default, the model trains at 25 epochs. The reason for this is that the ResNet model has better performance at 20 or more epochs. If you want to test the difference in performance between various epochs, you can changed it by going to **line 202** of the script and amending the ‘**epochs**’ parameter and running the script.