

Code Description

Table below summarizes the functionality of each file.

Sr. No.	File Name	Functionality Accomplished
1	worksheet_1_task_1_cop_measures.py	<ul style="list-style-type: none">• Implements all types of COP measures• Implements COA• Module can create or save/load features from file
2	worksheet_1_task_2_enrollment.py	<ul style="list-style-type: none">• Visualization of EER, FAR, FRR, accuracy plot, ROC plots• Saving results/matrices for checkpoint_1 for subject 4 left foot: using the correlation coefficient and Euclidean distance
3	worksheet_2_task_1.py	<ul style="list-style-type: none">• Apply pca and SVM, LDA, MLP• with 19 components in pca: explained variance was 99.07• all classifiers also applied in one vs rest setting as well
4	worksheet_2_task_2_multipletemplate.py	<ul style="list-style-type: none">• Implements multi-template matching approach
5	dataset.py	<ul style="list-style-type: none">• Implements structures/utils for organizing the dataset
6	metrics.py	<ul style="list-style-type: none">• Implements EER, FAR, FRR and other distances and metrics and visualization

List of python dependencies for compiling the code:

- natsort
- scipy
- sklearn