

Thalmic Labs Machine Learning Challenge

A gesture recognition company has provided you with a list of 2000 examples of 6 different types of hand gestures.

The data is supplied to you as a collection of CSV files named as follows:

GestureM_ExampleN.txt

where M is the gesture number (1-6) and N is the example number (1-2000). Each CSV file contains a 50x8 matrix (50 time-domain samples, 8 channels of data). The value of the sample represents the amplitude of the muscle activation.

Your task is to develop a classification model to differentiate between these gestures, so that when a new example of 50x8 data comes in, your model will have a high accuracy in classifying it as the correct gesture.

Please describe your process of solving this problem, the models you experimented with, the results each model achieved, and your final results for your best model.

Feel free to code in whatever language you are most comfortable in.