Phase 06: Last Experiment

In the command window of Matlab, type "help <`file_name.m`>" to see the header documentation of my program scripts.

Note 1:

This folder contains following main script. Go to Matlab Command Window and type the target main script (For example >> `train_models`) for execution.

- `train_models.m`
  - Read the main script header for more details.
  - This program will generate four trained classifiers (based on original size (1x) CLPs) for mixture of expert-models. The model files are as follows
    - `knn.mat`
    - `svm.mat`
    - `tree.mat`
    - `disa.mat`
- `test_mixture.m`
  - Read the main script header for more details.
  - It generates a "txt" file named `output.txt` (in the current directory) that contains the outputs (accuracies of the final mixture of expert-models for different sizes of CLPs).

Note 2:

This folder contains following function scripts (You don't need to run them separately).

- `mixture_fitness.m`
  - Read the function header for more details.
  - This function will give the accuracy (%) of the mixture-model based on the provided weight vector (w) and selected resolution of the CLPs (S) as parameter.
  - This function is used inside `test_mixture.m`.
- `my_svmclassify.m`
  - Not my major contribution. I slightly modify the built-in matlab function to generate probability instead of '0' or '1' labels.
  - This function is used inside `mixture_fitness.m`.

- `my_svmdecision.m`
  - Not my major contribution. I slightly modify the built-in matlab function to generate probability instead of '0' or '1' labels.
  - This function is used inside `my_svmclassify.m`.

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