README

This is the illustrative document for exercise 3 of Machine Learning Course.

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Files in the package

- 1. Exercise3_20190926.pdf The assignment file.
- 2. run.py The running file.
- 3. utils.py The util functions file.
- 4. exercise_3_ML_季林成_2017012775_经71.pdf The experiment report file.
- 5. Given dataset files
 - 1. train_10gene.csv
 - 2. train_10gene_sub.csv
 - 3. train_label.csv
 - 4. train_label_sub.csv
 - 5. test_10gene.csv
 - 6. test2_10gene.csv
 - 7. test_label.csv
 - 8. test2_label.csv
- 6. Preprocessing dataset files
 - 1. unquoted_(train_10gene/train_10gene_sub/train_lable/train_label_sub/test_10gene/test_label/test2_10gene/test2_label).csv
 - 2. transposed_unquoted_(train_10gene/train_10gene_sub/train_lable/train_label_sub/test_10gene/test_label/t est2_10gene/test2_label).csv
- 7. (poly or linear)_train_1/2_test_1/2.log log files
- 8. README.md

Network structure

The networks applied in the package is based on scikit-learn.

Programming environment

How to run the code

- 1. open *run.py*
- 2. search for "_trainset_" to locate the naming code block in the middle
- 3. search for "train_data"(or train_target, test_data, test_target, core_function) to locate the main code block at the end
- 4. change the kernel function: replace "poly" in core_function with other kernels, such as "linear", "rbf", "sigmoid"
- 5. change the trainset/testset: replace corresponding address with addresses you like
- 6. run *run.py*
- 7. NOTE: when warning info "parell table not identical" appears, please run the code again