

# Design document for the PyMVPA wrapper tool

Files:

## Classification

1)

fmriCmd.py

This file is the main file that parses the command given to the tool

It also displays the values of the parameters specified and the default values

This file calls callApis API in fmriClassify.py

This file also has object pointer to each of the classifier.

2)

fmriClassify.py

This file performs the classification using the options from fmriCmd.py.

It takes input as the object to the fmriClass.

3)

Classifier files

These files define the parameters for each classifier in a class. They are referenced by fmriCmd.py

smlrClass.py

knnClass.py

svmClass.py

blrClass.py

enetClass.py

gprClass.py

larsClass.py

plrClass.py

rrClass.py

## Similarity Analysis

1) fmriDsm.py

This file is the main file that parses the input command. The values are then passed on to fmriDsmOp.py

2) fmriDsmOp.py

This file performs the actual dissimilarity analysis and generates plots.

3) fmriDsmAll.py

This file produces the average dissimilarity matrix across all the subjects.