# Running Instructions

All of these commands should be issued from the main directory of the repository.

## Setup

$ pip install -r requirements.txt

## Training

$ python Code/runner.py --mode train --algorithm insert\_algorithm\_here --model-file algorithm's\_name.model --data Data/ratings.csv

## Predicting

$ python Code/runner.py --mode test --algorithm insert\_algorithm\_here --model-file algorithm's\_name.model --num-neighbors default\_is\_five --data Data/ratings.csv --predictions-file insert\_algorithm\_here.predictions

## Evaluation

$ python Code/eval.py Data/ratings.csv algorithm's\_name.predictions

## Running Testing Suite

$ python test.py

Upon running the test suite, a list of all the algorithms, their execution with different number of neighbours, their corresponding mean absolute erros and time taken for predictions (in seconds) is dislpayed.

### Algorithm Names (for command line arguments)

\* pearson

\* spearman

\* mean\_squared

\* cosine

## Example

$ pip install -r requirements.txt

$ python Code/runner.py --mode train --algorithm spearman --model-file spearman.model --data Data/ratings.csv

$ python Code/runner.py --mode test --algorithm spearman --model-file spearman.model --num-neighbors 3 --data Data/ratings.csv --predictions-file spearman.predictions

$ python Code/eval.py Data/ratings.csv spearman.predictions