Use the same Movielens dataset 1 (the 100K dataset) as you did in the first assignment

Q1. Using the following four algorithms (on the raw ratings data, without baseline correction) see, how the NMAE varies.

1. Non-Negative Matrix Factorization (NNMF)

2. Incremented Rank Power Factorization (IRPF)

3. Fixed Point Continuation (FPC)

4. Singular Value Thresholding (SVT)

Those of you, who are already familiar with Matlab (especially all ECE students) should implement the NNMF yourself and test to see if it yields the same results as the Matlab inbuilt function (nnmf).

The evaluation metric remains the same as previous assignments, i.e. you have to use 5-fold cross validation for reporting the results.