**ReadME**

**Final** Folder contains dataset as well as code files

**Dataset**:

1)Netflix movie dataset

**How to Run:**

For each file, please edit the Dataset path in the codes. Run each cell in the notebook file

**Code Files:**

**Please refer the ipynb files for the precomputed outputs of every code if you like.**

**1)collaborative\_filtering.ipynb file:** This file contains the implementation of Collaborative Filtering as per the equation and concepts mentioned in the research paper given in the homework file.

- predictions.txt file contains predictions of ratings on test data

**2)SVM\_mnist.ipynb file:** This file contains SVM classifier and its hyperparameter tuning.

**3)MLP\_mnist.ipynb file:** This file contains MLP Classifier and its hyperparameter tuning.

**4)KNN\_mnist.ipynb file:** This file contains KNN Classifier and its hyperparameter tuning.