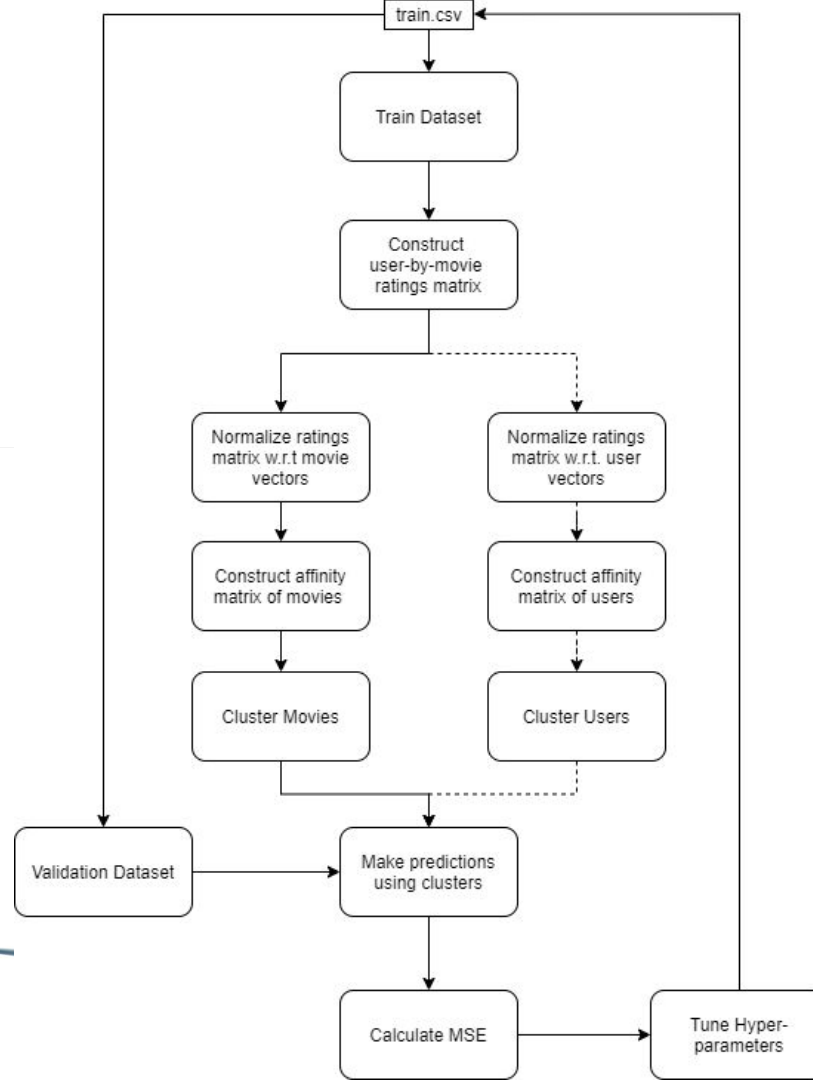


Collaborative Filtering using Spectral Clustering

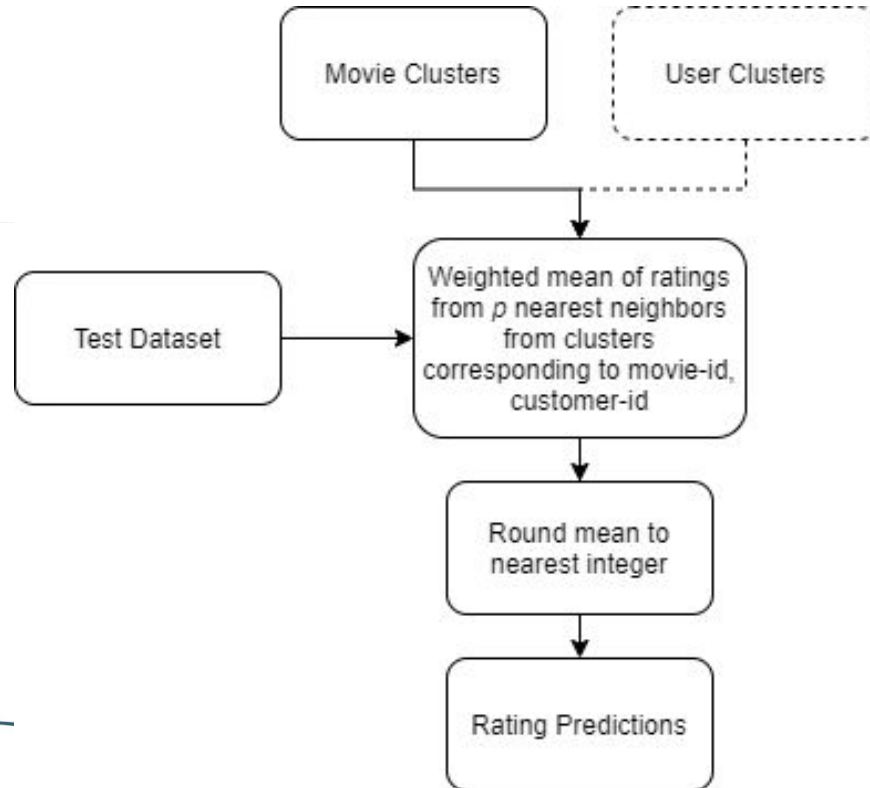
Netflix Rating Prediction

Prashanth R. Duggirala

Training Approach:

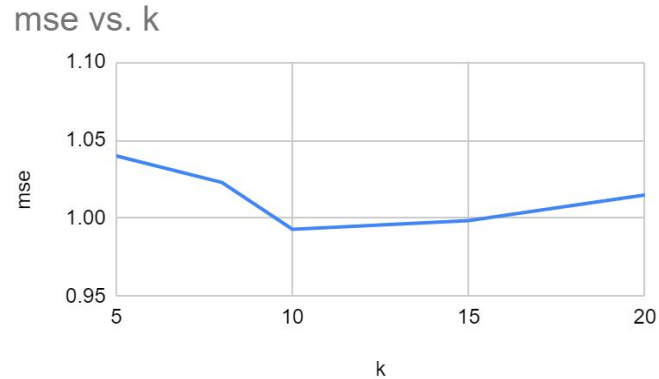


Making Predictions:



Hyperparameter Tuning:

- Number of clusters (k):
 - The number of clusters was selected empirically based on the size of the clusters, we try to keep the size of clusters fairly balanced.



Hyperparameter Tuning:

- Number of nearest neighbours (p):
 - Clustering helps massively here because the search space for finding the nearest neighbours is reduced considerably
- Above decision to maintain the balance in the cluster sizes is mainly because of this reason.

