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Homework 3 Analysis

**Analysis Objective**

The objective for this homework was to use the Surprise framework to see the effectiveness of different algorithms on a dataset of restaurant ratings, measured using both the RMSE (root mean square error) and MAE (mean absolute error). With Surprise and Python, this was fairly straight forward.

**Process Description**

I used Python and the Surprise package for pretty much everything. For making the actual graphs I used Microsoft Excel. I output all my results to a file so that it could be read later. Surprise handled the different folds as well as all the necessary configuration options for each algorithm. It also came with a method to print out the results in a readable format. The only thing I had to do on my own was sum up the 1st, 2nd, and 3rd folds individually and calculate the averages for each.

**Pt 5-12 Results**

**Pt 13 Results**

**Pt 14 Results**

**Conclusion**