Jung Suk Lee

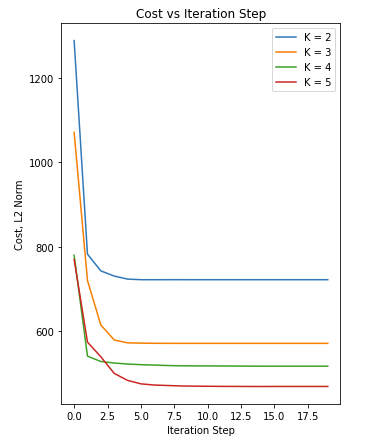
JL5241

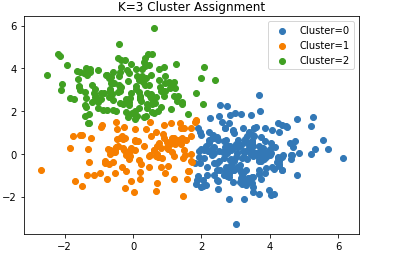
HW3 Submission

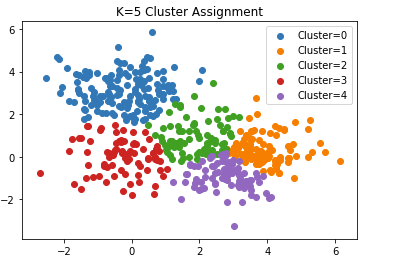
4/19/2019

# Problem 1

**First 20 Iterations for k=2..5**

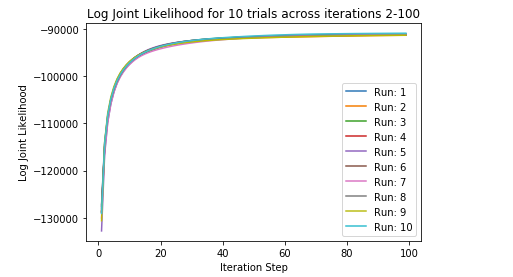


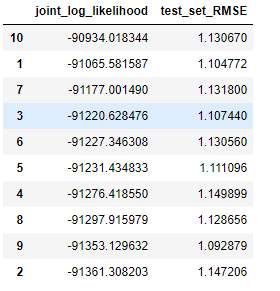




# Problem 3

**Joint log likelihood of Iterations 2 to 100 for 10 different runs**





Trial 10 has the highest final joint log likelihood but not the lowest RMSE.

Below are lists of star wars, my fair lady, and good fellas movies in their respective orders and their 10 closest movies and its distances.

