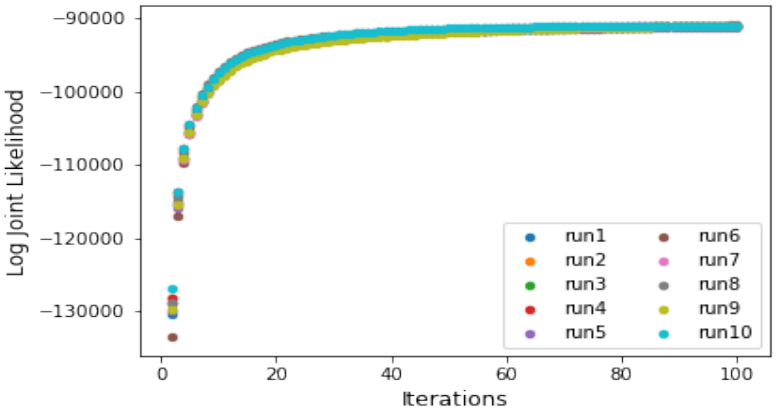
Sihui Huang (sh3573)
COMS4721 ML
HW4
2(a)



	Log Joint Likelihood	RMSE
7	-90960.977288	1.154817
9	-90992.622431	1.114503
0	-91006.346036	1.140668
6	-91030.718501	1.145972
8	-91056.040372	1.125812
5	-91059.102725	1.113618
1	-91077.220569	1.093702
2	-91086.722447	1.132301
3	-91089.438800	1.108306
4	-91288.767013	1.089387

2(b)

	10 closest movies to Star Wars	Euclidean Distance
0	Empire Strikes Back, The (1980)	0.299806
1	Raiders of the Lost Ark (1981)	0.508063
2	My Man Godfrey (1936)	0.592557
3	Return of the Jedi (1983)	0.597904
4	Manon of the Spring (Manon des sources) (1986)	0.905616
5	Indiana Jones and the Last Crusade (1989)	0.909051
6	Great Escape, The (1963)	0.914790
7	Terminator 2: Judgment Day (1991)	0.921028
8	Back to the Future (1985)	0.949540
9	Love in the Afternoon (1957)	0.960297

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	10 closest movies to My Fair Lady	Euclidean Distance
0	Mary Poppins (1964)	0.523919
1	Sound of Music, The (1965)	0.638047
2	Snow White and the Seven Dwarfs (1937)	0.758567
3	Cinderella (1950)	0.872197
4	Sabrina (1954)	0.903873
5	Wizard of Oz, The (1939)	0.910556
6	Shadowlands (1993)	0.967998
7	Parent Trap, The (1961)	0.973728
8	Alice in Wonderland (1951)	1.015552
9	American in Paris, An (1951)	1.045298

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	10 closest movies to Goodfellas	Euclidean Distance
0	Good, The Bad and The Ugly, The (1966)	0.439912
1	Casino (1995)	0.571234
2	Full Metal Jacket (1987)	0.651449
3	Bonnie and Clyde (1967)	0.770000
4	Godfather: Part II, The (1974)	0.814192
5	Cool Hand Luke (1967)	0.814419
6	Psycho (1960)	0.866489
7	Alien (1979)	0.909880
8	Once Upon a Time in the West (1969)	0.975165
9	Short Cuts (1993)	0.995149