

# **Assignment 8**

**Fall 2014**

**CS595 Web Science**

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# 1 Question 1

## 1.1 Question

The goal of this project is to use the basic recommendation principles we have learned for user-collected data. You will modify the code given to you which performs movie recommendations from the MovieLens data sets.

The MovieLens data sets were collected by the GroupLens Research Project at the University of Minnesota during the seven-month period from September 19th, 1997 through April 22nd, 1998. It is available for download from <http://www.grouplens.org/node/73>

The code for reading from the u.data and u.item files and creating recommendations is described in the book Programming Collective Intelligence (check email for more details). You are to modify recommendations.py to answer the following questions. Each question your program answers correctly will award you 10 points. You must have the question answered completely correct; partial credit will only be awarded if your answer is very close to the correct one.

Your output should clearly indicate the answers from the question you answered. Provide any relevant discussion.

## 1.2 Answer

[1]

Title	Rating
They Made Me a Criminal (1939)	5.0
Someone Else's America (1995)	5.0
Saint of Fort Washington, The (1993)	5.0
Entertaining Angels: The Dorothy Day Story (1996)	5.0
Marlene Dietrich: Shadow and Light (1996)	5.0
Star Kid (1997)	5.0
Aiqing wansui (1994)	5.0
Prefontaine (1997)	5.0
Great Day in Harlem, A (1994)	5.0
Santa with Muscles (1996)	5.0

Table 1: Highest Average Rating

Title	Ratings Count
Star Wars (1977)	583
Contact (1997)	509
Fargo (1996)	508
Return of the Jedi (1983)	507
Liar Liar (1997)	485

Table 2: Most Ratings

Title	Rating
Stripes (1981)	5.0
Someone Else's America (1995)	5.0
Faster Pussycat! Kill! Kill! (1965)	5.0
Everest (1998)	5.0
Visitors, The (Visiteurs, Les) (1993)	5.0
Maya Lin: A Strong Clear Vision (1994)	5.0
Year of the Horse (1997)	5.0
Foreign Correspondent (1940)	5.0
Telling Lies in America (1997)	5.0
Prefontaine (1997)	5.0
Mina Tannenbaum (1994)	5.0

Table 3: Highest Ratings by Women

Title	Rating
They Made Me a Criminal (1939)	5.0
Letter From Death Row, A (1998)	5.0
Saint of Fort Washington, The (1993)	5.0
Quiet Room, The (1996)	5.0
Entertaining Angels: The Dorothy Day Story (1996)	5.0
Marlene Dietrich: Shadow and Light (1996)	5.0
Star Kid (1997)	5.0
Little City (1998)	5.0
Aiqing wansui (1994)	5.0
Prefontaine (1997)	5.0
Love Serenade (1996)	5.0
Leading Man, The (1996)	5.0
Great Day in Harlem, A (1994)	5.0
Santa with Muscles (1996)	5.0
Delta of Venus (1994)	5.0

Table 4: Highest Ratings by Men

Title	Rating
1.0	Shiloh (1997)
1.0	King of the Hill (1993)
1.0	Bhaji on the Beach (1993)
1.0	Wild America (1997)
1.0	Wedding Gift, The (1994)
1.0	Underground (1995)
1.0	Two or Three Things I Know About Her (1966)
1.0	Two Bits (1995)
1.0	Total Eclipse (1995)
1.0	The Innocent (1994)
1.0	That Old Feeling (1997)
1.0	Stars Fell on Henrietta, The (1995)
1.0	Stalker (1979)
1.0	Spirits of the Dead (Tre passi nel delirio) (1968)
1.0	Show, The (1995)
1.0	Shooter, The (1995)
1.0	Selena (1997)
1.0	Schizopolis (1996)
1.0	Scarlet Letter, The (1926)
1.0	Run of the Country, The (1995)
1.0	Ponette (1996)
1.0	Perfect Candidate, A (1996)
1.0	Outlaw, The (1943)
1.0	Old Lady Who Walked in the Sea, The (Vieille qui marchait dans la mer, La) (1991)
1.0	Nothing to Lose (1994)
1.0	New Jersey Drive (1995)
1.0	Mr. Jones (1993)
1.0	Metisse (Café au Lait) (1993)
1.0	Maybe, Maybe Not (Bewegte Mann, Der) (1994)
1.0	Manny & Lo (1996)
1.0	Man of the Year (1995)
1.0	Love Serenade (1996)
1.0	Last Time I Saw Paris, The (1954)
1.0	Killer (Bulletproof Heart) (1994)
1.0	Jerky Boys, The (1994)
1.0	I Like It Like That (1994)
1.0	Horse Whisperer, The (1998)
1.0	Hear My Song (1991)
1.0	Grosse Fatigue (1994)
1.0	Gone Fishin' (1997)
1.0	Glass Shield, The (1994)
1.0	Germinal (1993)
1.0	Gabbeh (1996)
1.0	Four Days in September (1997)
1.0	Flower of My Secret, The (Flor de mi secreto, La) (1995)
1.0	Fausto (1993)
1.0	Even Cowgirls Get the Blues (1993)
1.0	Enfer, L' (1994)
1.0	Dream With the Fishes (1997)
1.0	Dream Man (1995)
1.0	Dangerous Ground (1997)
1.0	Collectionneuse, La (1967)
1.0	Clean Slate (Coup de Torchon) (1981)
1.0	Calendar Girl (1993)
1.0	Blood For Dracula (Andy Warhol's Dracula) (1974)
1.0	Bliss (1997)
1.0	Best Men (1997)
1.0	American Dream (1990)

Title	Rating
-1.0	Babysitter, The (1995)
-1.0	Telling Lies in America (1997)
-1.0	Year of the Horse (1997)
-1.0	World of Apu, The (Apu Sansar) (1959)
-1.0	Two Much (1996)
-1.0	Tetsuo II: Body Hammer (1992)
-1.0	Switchback (1997)
-1.0	Safe Passage (1994)
-1.0	Roseanna's Grave (For Roseanna) (1997)
-1.0	Romper Stomper (1992)
-1.0	Nil By Mouth (1997)
-1.0	Nico Icon (1995)
-1.0	Naked in New York (1994)
-1.0	Midnight Dancers (Sibak) (1994)
-1.0	Meet Wally Sparks (1997)
-1.0	Lover's Knot (1996)
-1.0	Love and Death on Long Island (1997)
-1.0	Loch Ness (1995)
-1.0	Lamerica (1994)
-1.0	Joy Luck Club, The (1993)
-1.0	Heidi Fleiss: Hollywood Madam (1995)
-1.0	Frisk (1995)
-1.0	Everest (1998)
-1.0	Carried Away (1996)
-1.0	Carpool (1996)
-1.0	Caro Diario (Dear Diary) (1994)
-1.0	Broken English (1996)
-1.0	Bitter Sugar (Azucar Amargo) (1996)
-1.0	Bewegte Mann, Der (1994)
-1.0	Beat the Devil (1954)
-1.0	Bad Moon (1996)

Table 6: Least like Top Gun

Rater ID	Ratings Count
405	736
655	678
13	632
450	538
276	516

Table 7: Most Opinionated Viewers

User 1 ID	User 2 ID	r Value
772	889	1.0
889	772	1.0
828	98	1.0
231	942	1.0
846	941	1.0

Table 8: Bandwagoners

User 1 ID	User 2 ID	r Value
655	384	0.683130051064
13	46	0.687746384953
130	511	0.725423370905
327	816	0.77151674981
796	205	0.791384015377

Table 9: Nemeses

Title	Rating
Aparajito (1956)	5.0
They Made Me a Criminal (1939)	5.0
Two or Three Things I Know About Her (1966)	5.0
Faithful (1996)	5.0
Ace Ventura: When Nature Calls (1995)	5.0
Strawberry and Chocolate (Fresa y chocolate) (1993)	5.0
Indian Summer (1996)	5.0
Grateful Dead (1995)	5.0
Boxing Helena (1993)	5.0
Double Happiness (1994)	5.0
Poison Ivy II (1995)	5.0
Spice World (1997)	5.0
World of Apu, The (Apu Sansar) (1959)	5.0
Marlene Dietrich: Shadow and Light (1996)	5.0
Unstrung Heroes (1995)	5.0
Star Kid (1997)	5.0
Little City (1998)	5.0
Prefontaine (1997)	5.0
Leading Man, The (1996)	5.0
Little Princess, The (1939)	5.0
Great Day in Harlem, A (1994)	5.0
Late Bloomers (1996)	5.0
Rendezvous in Paris (Rendez-vous de Paris, Les) (1995)	5.0
Solo (1996)	5.0
Hearts and Minds (1996)	5.0

Table 10: Highest Ratings by Old Men

Title	Rating
Letter From Death Row, A (1998)	5.0
Perfect Candidate, A (1996)	5.0
Saint of Fort Washington, The (1993)	5.0
Quiet Room, The (1996)	5.0
Magic Hour, The (1998)	5.0
Entertaining Angels: The Dorothy Day Story (1996)	5.0
Maya Lin: A Strong Clear Vision (1994)	5.0
Angel Baby (1995)	5.0
Star Kid (1997)	5.0
Love in the Afternoon (1957)	5.0
Aiqing wansui (1994)	5.0
Prefontaine (1997)	5.0
Love Serenade (1996)	5.0
Leading Man, The (1996)	5.0
Crossfire (1947)	5.0
Santa with Muscles (1996)	5.0
Delta of Venus (1994)	5.0

Table 11: Highest Ratings by Almost Old Men

Title	Rating
Tombstone (1993)	5.0
Shall We Dance? (1937)	5.0
Quest, The (1996)	5.0
Top Hat (1935)	5.0
Safe (1995)	5.0
In the Bleak Midwinter (1995)	5.0
Grand Day Out, A (1992)	5.0
Letter From Death Row, A (1998)	5.0
Band Wagon, The (1953)	5.0
Funny Face (1957)	5.0
Ma vie en rose (My Life in Pink) (1997)	5.0
Visitors, The (Visiteurs, Les) (1993)	5.0
Pocahontas (1995)	5.0
Angel Baby (1995)	5.0
Wrong Trousers, The (1993)	5.0
Best Men (1997)	5.0
Foreign Correspondent (1940)	5.0
Swept from the Sea (1997)	5.0
Mary Shelley's Frankenstein (1994)	5.0
Shallow Grave (1994)	5.0
Nightmare Before Christmas, The (1993)	5.0
Gold Diggers: The Secret of Bear Mountain (1995)	5.0
Mina Tannenbaum (1994)	5.0
Bride of Frankenstein (1935)	5.0
Balto (1995)	5.0
Great Dictator, The (1940)	5.0

Table 12: Highest Ratings by Old Women



Title	Rating
Stripes (1981)	5.0
Don't Be a Menace to South Central While Drinking Your Juice in the Hood (1996)	5.0
Someone Else's America (1995)	5.0
Grace of My Heart (1996)	5.0
Horseman on the Roof, The (Hussard sur le toit, Le) (1995)	5.0
Faster Pussycat! Kill! Kill! (1965)	5.0
Wedding Gift, The (1994)	5.0
Heaven's Prisoners (1996)	5.0
Everest (1998)	5.0
Nico Icon (1995)	5.0
Maya Lin: A Strong Clear Vision (1994)	5.0
Year of the Horse (1997)	5.0
Umbrellas of Cherbourg, The (Parapluies de Cherbourg, Les) (1964)	5.0
Telling Lies in America (1997)	5.0
Prefontaine (1997)	5.0
Mina Tannenbaum (1994)	5.0
Backbeat (1993)	5.0

Table 13: Highest Ratings by Almost Old Women

## 2 References

- [1] Numpy Developers. Python numpy Module. <http://www.numpy.org/>, 2013.