

Part 1:

For this section I started out by sorting all the users closest to me by similarities in our age, occupation, and gender. Later I sorted the ratings and chose the top and bottom 3 of three users closest to me. My substitute was user 599 being that I love the movie Picture Perfect and One Night Stand.

*used substitution_you.py

*used correlation.py

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atria:~/cs432/Assignment7/src> python substitute_you.py
-----Similar Users-----
User: 928:
-----Top-3-----
1)Kull the Conqueror (1997).....5.0
2)Spawn (1997).....5.0
3)Monty Python and the Holy Grail (1974).....5.0
-----Bottom-Three-----
1)Game, The (1997).....3.0
2)Scream (1996).....3.0
3)Aliens (1986).....3.0
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User: 323:
-----Top-3-----
1)Taxi Driver (1976).....5.0
2)Seven (Se7en) (1995).....5.0
3)Star Wars (1977).....5.0
-----Bottom-Three-----
1)Jungle2Jungle (1997).....1.0
2)Murder at 1600 (1997).....2.0
3)Volcano (1997).....2.0
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User: 81:
-----Top-3-----
1)Birdcage, The (1996).....5.0
2)Schindler's List (1993).....5.0
3)Fugitive, The (1993).....5.0
-----Bottom-Three-----
1)Grumpier Old Men (1995).....1.0
2)Beverly Hills Ninja (1997).....1.0
3)Very Brady Sequel, A (1996).....1.0
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User: 259:
-----Top-3-----
1)Monty Python's Life of Brian (1979).....5.0
2)Doors, The (1991).....5.0
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atria:~/cs432/Assignment7/src> python substitute_you.py -a 22 -o student -g f
-----Similar Users-----
User: 304:
-----Top-3-----
1)Face/Off (1997).....5.0
2)Air Force One (1997).....5.0
3)Jerry Maguire (1996).....5.0
-----Bottom-Three-----
1)English Patient, The (1996).....1.0
2)George of the Jungle (1997).....1.0
3)Wishmaster (1997).....2.0
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User: 712:
-----Top-3-----
1)Casper (1995).....5.0
2)Operation Dumbo Drop (1995).....5.0
3)Man Without a Face, The (1993).....5.0
-----Bottom-Three-----
1)Three Colors: Blue (1993).....1.0
2)Clerks (1994).....1.0
3)Mr. Smith Goes to Washington (1939).....1.0
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User: 711:
-----Top-3-----
1)Circle of Friends (1995).....5.0
2)Enchanted April (1991).....5.0
3)Grosse Pointe Blank (1997).....5.0
-----Bottom-Three-----
1)Before Sunrise (1995).....1.0
2)Pocahontas (1995).....1.0
3)In Love and War (1996).....1.0
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User: 917:
-----Top-3-----
1)Sleepers (1996).....5.0
2)Jerry Maguire (1996).....5.0
3)Jane Eyre (1996).....5.0
-----Bottom-Three-----
1)Independence Day (ID4) (1996).....1.0
2)Four Rooms (1995).....1.0
3)Romy and Michele's High School Reunion (1997)...2.0
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User: 599:
-----Top-3-----
1)Picture Perfect (1997).....5.0
2)That Thing You Do! (1996).....5.0
3)One Night Stand (1997).....5.0
-----Bottom-Three-----
1)Event Horizon (1997).....1.0
2)Everyone Says I Love You (1996).....2.0
3)For the Moment (1994).....2.0
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-----Summary-----
Number of Users.....5

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User 304:**Top 3:**

- 1) Face/Off (1997).....5.0
- 2) Air Force One (1997).....5.0
- 3) Jerry Maguire (1996).....5.0

Bottom 3:

- 1) Game, The (1997).....3.0
- 2) Scream (1996).....3.0
- 3) Aliens (1986).....3.0

User 599:**Top 3:**

- 1) Picture Perfect (1997).....5.0
- 2) That Thing You Do! (1996).....5.0
- 3) One Night Stand (1997).....5.0

Bottom 3:

- 1) Event Horizon (1997).....1.0
- 2) Everyone Says I Love You (1996).....2.0
- 3) For the Moment (1994).....2.0

- **I mostly identify with user 599, except I haven't watched "That Thing You Do!" so I cannot judge on whether I like it or not.**

Part 2:

In this step I ran correlation.py and received the most correlated and least correlated users according to my substitute. I received five +1's and five -1's indicating that there was similarities in the movies for the most correlated and no similarity for the least correlated.

User 712:**Top 3:**

- 1) Casper (1995).....5.0
- 2) Operation Dumbo Drop (1995).....5.0
- 3) Man Without a Face, The (1993).....5.0

Bottom 3:

- 1) Three Colors: Blue (1993).....1.0
- 2) Clerks (1994).....1.0
- 3) Mr. Smith Goes to Washington (1939).....1.0

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Missing name for redirect.
atria:~/cs432/Assignment7/src> python correlation.py 599
-----Results for: 599-----
-----Top Five Most Correlated-----
1) 38.....+1.0
2) 920.....+1.0
3) 538.....+1.0
4) 40.....+1.0
5) 41.....+1.0
-----Top Five Least Correlated-----
1) 928.....-1.0
2) 819.....-1.0
3) 19.....-1.0
4) 467.....-1.0
5) 898.....-1.0
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atria:~/cs432/Assignment7/src> █

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-----Top Five Most Correlated-----

1)38.....+1.0
2)920.....+1.0
3)538.....+1.0
4)40.....+1.0
5)41.....+1.0

-----Top Five Least Correlated-----

1)928.....-1.0
2)819.....-1.0
3)19.....-1.0
4)467.....-1.0
5)898.....-1.0

Part 3:

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atria:~/cs432/Assignment7/src> python rate.py
r = r_num / r_den
Top 5 recommendations for films
Nico Icon (1995)  Movie Rate: 5.0
Santa with Muscles (1996)  Movie Rate: 5.0
They Made Me a Criminal (1939)  Movie Rate: 5.0
Visitors, The (Visiteurs, Les) (1993)  Movie Rate: 5.0
Drunks (1995)  Movie Rate: 5.0

Bottom 5 recommendations for films
Etz Hadomim Tafus (Under the Domin Tree) (1994)  Movie Rate: 0
Two Friends (1986)  Movie Rate: 0
Brothers in Trouble (1995)  Movie Rate: 0
Girls Town (1996)  Movie Rate: 0
Normal Life (1996)  Movie Rate: 0
atria:~/cs432/Assignment7/src> █

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Part 4:

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atria:~/cs432/Assignment7/src> python like.py
Favorite movie: 873|Picture Perfect (1997)
  r = r_num / r_den
Top 5 most correlated movies:
Critical Care (1997) ( correlation: 1.0 )
Heavy Metal (1981) ( correlation: 1.0 )
Theodore Rex (1995) ( correlation: 1.0 )
Cemetery Man (Dellamorte Dellamore) (1994) ( correlation: 1.0 )
Purple Noon (1960) ( correlation: 1.0 )
Bottom 5 least correlated movies:
Sirens (1994) ( correlation: -1.0 )
Race the Sun (1996) ( correlation: -1.0 )
Children of the Revolution (1996) ( correlation: -1.0 )
Turbulence (1997) ( correlation: -1.0 )
Love & Human Remains (1993) ( correlation: -1.0 )

Least favorite movie: 114|Wallace & Gromit: The Best of Aardman Animation (1996)
Top 5 most correlated movies:
Rosewood (1997) ( correlation: 1.0 )
Lord of Illusions (1995) ( correlation: 1.0 )
Cemetery Man (Dellamorte Dellamore) (1994) ( correlation: 1.0 )
Once Were Warriors (1994) ( correlation: 1.0 )
Women, The (1939) ( correlation: 1.0 )
Bottom 5 least correlated movies:
In the Bleak Midwinter (1995) ( correlation: -1.0 )
Son in Law (1993) ( correlation: -1.0 )
Blown Away (1994) ( correlation: -1.0 )
Kid in King Arthur's Court, A (1995) ( correlation: -1.0 )
Tales from the Hood (1995) ( correlation: -1.0 )
atria:~/cs432/Assignment7/src> █
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I picked movie 873; Picture perfect as my favorite movie, and Wallace & Gomit: The Best of Aardman Animation as my least favorite, In order to get the proper results I ran like.py and got these results:

- For this section some of the results were right and the others I couldn't comment on being that I haven't watched those specific movies; the movies which I like were Cemetery Man and Critical care. For the Bottom least correlated, the data came out wrong being that I do enjoy the movies Siren, Turbulence, and Children of the Revolution.