Recommender system

Improve your grade

Test data

- Bob/Cats/5
- Suelyn/Harry Potter/1
- Carlos/Animal Farm/1
- Kalid/Watership Down /5
- Carlos/1984/-5
- Bob/Harry Potter /3
- Suelyn/1984/5
- Carlos/Harry Potter/5
- Suelyn/Animal Farm/-3
- Bob/Lord of the Rings/5
- Kalid/Animal Farm/-3
- Kalid /Harry Potter/3

Books

- ['Harry Potter', 'Animal Farm', 'Lord of the Rings', 'Watership Down', 'Cats', '1984']

Ratings

- {'Bob': [-3, 0, 5, 0, 5, 0],
- 'Suelyn': [1, -3, 0, 0, 0, 5],
- 'Carlos': [5, 1, 0, 0, 0, -5],
- 'Kalid': [3, -3, 0, 5, 0, 0]}

Average ratings

- [(-1.6666666666666667, 'Animal Farm'),
- (0.0, '1984'),
- (
- (5.0, 'Cats'), 1.5, 'Harry Potter'),
- (5.0, 'Lord of the Rings'),
- (5.0, 'Watership Down')]

Processing input

- Recommend
- Kalid

Sorted similarities

- [(12, 'Suelyn'),
- (12, 'Carlos'),
- (-9, 'Bob')]

Average ratings top 3 users

- [1.0, -1.0, 5.0, 0, 5.0, 0.0]

Books to recommend based on Kalid's similarity ratings

- [(1.0, 'Harry Potter'),
- (5.0, 'Cats'),
- (5.0, 'Lord of the Rings')]