

UNSUPERVISED LEARNING – CASE STUDY: MOVIES RECOMMENDATIONS

- The data set contains 100000 ratings by 943 users on 1682 movies. Each user has rated at least 20 movies (*)
- Fields like movie id, movie title, release date, genre, and ratings but also demographic information about the users, such as age, gender, occupation.
- Objective:
Generate recommendations for a given user (user_id: 0)

* Available at: <http://www.grouplens.org/>

1|Toy Story (1995)|01-Jan-1995||[http://us.imdb.com/M/title-exact?Toy%20Story%20\(1995\)](http://us.imdb.com/M/title-exact?Toy%20Story%20(1995))|0|0|0|0|1|1|1|1|0|0|0|0|0|0|0|0|0|

2|GoldenEye (1995)|01-Jan-1995||[http://us.imdb.com/M/title-exact?GoldenEye%20\(1995\)](http://us.imdb.com/M/title-exact?GoldenEye%20(1995))|0|1|1|1|0|0|0|0|0|0|0|0|0|0|0|0|0|

3|Four Rooms (1995)|01-Jan-1995||[http://us.imdb.com/M/title-exact?Four%20Rooms%20\(1995\)](http://us.imdb.com/M/title-exact?Four%20Rooms%20(1995))|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|

4|Get Shorty (1995)|01-Jan-1995||[http://us.imdb.com/M/title-exact?Get%20Shorty%20\(1995\)](http://us.imdb.com/M/title-exact?Get%20Shorty%20(1995))|0|1|1|0|0|0|1|1|0|0|1|1|0|0|0|0|0|

5|Copycat (1995)|01-Jan-1995||[http://us.imdb.com/M/title-exact?Copycat%20\(1995\)](http://us.imdb.com/M/title-exact?Copycat%20(1995))|0|0|0|0|0|0|0|0|1|0|1|1|0|0|0|0|0|0|1|

6|Shanghai Triad (Yao a yao dao waipo qiao) (1995)|01-Jan-1995||<http://us.imdb.com/Title?Yao+a+yao+yao+dao+wai>

7|Twelve Monkeys (1995)|01-Jan-1995||[http://us.imdb.com/M/title-exact?Twelve%20Monkeys%20\(1995\)](http://us.imdb.com/M/title-exact?Twelve%20Monkeys%20(1995))|0|0|0|0|0|0|0|0|0|0|1|

8|Babe (1995)|01-Jan-1995||[http://us.imdb.com/M/title-exact?Babe%20\(1995\)](http://us.imdb.com/M/title-exact?Babe%20(1995))|0|0|0|0|0|1|1|1|0|0|1|1|0|0|0|0|0|0|0|0|0|0|

9|Dead Man Walking (1995)|01-Jan-1995||[http://us.imdb.com/M/title-exact?Dead%20Man%20Walking%20\(1995\)](http://us.imdb.com/M/title-exact?Dead%20Man%20Walking%20(1995))|0|0|0|0|0|0|0|0|

10|Richard III (1995)|22-Jan-1996||[http://us.imdb.com/M/title-exact?Richard%20III%20\(1995\)](http://us.imdb.com/M/title-exact?Richard%20III%20(1995))|0|0|0|0|0|0|0|0|0|0|1|1|0|0|1|

11|Seven (Se7en) (1995)|01-Jan-1995||[http://us.imdb.com/M/title-exact?Se7en%20\(1995\)](http://us.imdb.com/M/title-exact?Se7en%20(1995))|0|0|0|0|0|0|0|0|1|1|0|0|0|0|0|0|0|0|0|

12|Usual Suspects, The (1995)|14-Aug-1995||[http://us.imdb.com/M/title-exact?Usual%20Suspects,%20The%20\(1995\)](http://us.imdb.com/M/title-exact?Usual%20Suspects,%20The%20(1995))|0|0|0|

13|Mighty Aphrodite (1995)|30-Oct-1995||[http://us.imdb.com/M/title-exact?Mighty%20Aphrodite%20\(1995\)](http://us.imdb.com/M/title-exact?Mighty%20Aphrodite%20(1995))|0|0|0|0|0|0|1|

14|Postino, Il (1994)|01-Jan-1994||[http://us.imdb.com/M/title-exact?Postino,%20Il%20\(1994\)](http://us.imdb.com/M/title-exact?Postino,%20Il%20(1994))|0|0|0|0|0|0|0|0|0|0|1|1|0|0|1|

15|Mr. Holland's Opus (1995)|29-Jan-1996||[http://us.imdb.com/M/title-exact?Mr.%20Holland's%20Opus%20\(1995\)](http://us.imdb.com/M/title-exact?Mr.%20Holland's%20Opus%20(1995))|0|0|0|0|0|

16|French Twist (Gazon maudit) (1995)|01-Jan-1995||[http://us.imdb.com/M/title-exact?Gazon%20maudit%20\(1995\)](http://us.imdb.com/M/title-exact?Gazon%20maudit%20(1995))|0|0|0|0|

17|From Dusk Till Dawn (1996)|05-Feb-1996||[http://us.imdb.com/M/title-exact?From%20Dusk%20Till%20Dawn%20\(1996\)](http://us.imdb.com/M/title-exact?From%20Dusk%20Till%20Dawn%20(1996))|0|1|

18|White Balloon, The (1995)|01-Jan-1995||[http://us.imdb.com/M/title-exact?Badkonake%20Sefid%20\(1995\)](http://us.imdb.com/M/title-exact?Badkonake%20Sefid%20(1995))|0|0|0|0|0|0|0|0|

19|Antonia's Line (1995)|01-Jan-1995||[http://us.imdb.com/M/title-exact?Antonia%20\(1995\)](http://us.imdb.com/M/title-exact?Antonia%20(1995))|0|0|0|0|0|0|0|0|0|0|1|0|0|0|0|0|

20|Angels and Insects (1995)|01-Jan-1995||[http://us.imdb.com/M/title-exact?Angels%20and%20Insects%20\(1995\)](http://us.imdb.com/M/title-exact?Angels%20and%20Insects%20(1995))|0|0|0|0|0|

21|Muppet Treasure Island (1996)|16-Feb-1996||[http://us.imdb.com/M/title-exact?Muppet%20Treasure%20Island%20\(1996\)](http://us.imdb.com/M/title-exact?Muppet%20Treasure%20Island%20(1996))

22|Braveheart (1995)|16-Feb-1996||[http://us.imdb.com/M/title-exact?Braveheart%20\(1995\)](http://us.imdb.com/M/title-exact?Braveheart%20(1995))|0|1|0|0|0|0|0|0|0|0|1|1|0|0|0|0|0|0|

23|Taxi Driver (1976)|16-Feb-1996||[http://us.imdb.com/M/title-exact?Taxi%20Driver%20\(1976\)](http://us.imdb.com/M/title-exact?Taxi%20Driver%20(1976))|0|0|0|0|0|0|0|0|0|0|1|1|0|0|1|

24|Rumble in the Bronx (1995)|23-Feb-1996||[http://us.imdb.com/M/title-exact?Hong%20Faan%20Kui%20\(1995\)](http://us.imdb.com/M/title-exact?Hong%20Faan%20Kui%20(1995))|0|1|1|1|0|0|0|

25|Birdcage, The (1996)|08-Mar-1996||[http://us.imdb.com/M/title-exact?Birdcage,%20The%20\(1996\)](http://us.imdb.com/M/title-exact?Birdcage,%20The%20(1996))|0|0|0|0|0|0|1|1|0|0|0|0|

26|Brothers McMullen, The (1995)|01-Jan-1995||[http://us.imdb.com/M/title-exact?Brothers%20McMullen,%20The%20\(1995\)](http://us.imdb.com/M/title-exact?Brothers%20McMullen,%20The%20(1995))

27|Bad Boys (1995)|01-Jan-1995||[http://us.imdb.com/M/title-exact?Bad%20Boys%20\(1995\)](http://us.imdb.com/M/title-exact?Bad%20Boys%20(1995))|0|1|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|

28|Apollo 13 (1995)|01-Jan-1995||[http://us.imdb.com/M/title-exact?Apollo%2013%20\(1995\)](http://us.imdb.com/M/title-exact?Apollo%2013%20(1995))|0|1|1|0|0|0|0|0|0|0|1|1|0|0|0|0|0|0|

29|Batman Forever (1995)|01-Jan-1995||[http://us.imdb.com/M/title-exact?Batman%20Forever%20\(1995\)](http://us.imdb.com/M/title-exact?Batman%20Forever%20(1995))|0|1|1|1|0|0|0|0|1|1|1|0|0|

30|Belle de jour (1967)|01-Jan-1967||[http://us.imdb.com/M/title-exact?Belle%20de%20jour%20\(1967\)](http://us.imdb.com/M/title-exact?Belle%20de%20jour%20(1967))|0|0|0|0|0|0|0|0|0|0|1|

31|Crimson Tide (1995)|01-Jan-1995||[http://us.imdb.com/M/title-exact?Crimson%20Tide%20\(1995\)](http://us.imdb.com/M/title-exact?Crimson%20Tide%20(1995))|0|0|0|0|0|0|0|0|0|0|1|1|0|0|1|

32|Crumb (1994)|01-Jan-1994||[http://us.imdb.com/M/title-exact?Crumb%20\(1994\)](http://us.imdb.com/M/title-exact?Crumb%20(1994))|0|0|0|0|0|0|0|0|0|1|1|0|0|0|0|0|0|0|0|0|0|0|

33|Desperado (1995)|01-Jan-1995||[http://us.imdb.com/M/title-exact?Desperado%20\(1995\)](http://us.imdb.com/M/title-exact?Desperado%20(1995))|0|1|0|0|0|0|0|0|0|0|0|0|0|0|0|0|1|

34|Doom Generation, The (1995)|01-Jan-1995||[http://us.imdb.com/M/title-exact?Doom%20Generation,%20The%20\(1995\)](http://us.imdb.com/M/title-exact?Doom%20Generation,%20The%20(1995))|0|0|