To run the evaluation without any noise injection

python run test.py -m RankAggregated -d ml-1m / (lastfm)

```
| 10/10 [00:03<00:00, 2.71it/s]
17 Nov 20:24
                    INFO Received OpenAI Responses
 0%
                                                                                                                   | 0/200 [00:00<?, ?it/s]S
  Elmo's Fire
['Maybe, Maybe Not (Bewegte Mann, Der)', 'Walking and Talking', 'Mrs. Winterbourne', 'City Lights', 'Delicatessen', 'Return with Honor', 'The Battle of the Sexes', 'Phantasm II', 'The Phantom of the Opera', 'Street Fighter', 'Ace Ventura: When Nature Calls', 'That Darn Cat!', 'Pather Panchali', 'Pale Rider', 'Ghostbusters II', 'Window to Paris', 'Ho
osiers', 'Children of the Corn III', 'Executive Decision']
100%
                                                                                                     | 200/200 [00:00<00:00, 851.01it/s]
                    INFO SAVE DONE! Path: dataset/ml-1m\output_files\final11_gpt-3.5-turbo_ml-1m_RankAggregated_output_2
17 Nov 20:24
020.json
17 Nov 20:24
                    INFO recall@1 - 0.25 recall@5 - 0.625
                                                                                recall@10 - 0.775
                                                                                                              recall@20 - 0.995
                                                                                          ndcg@20 - 0.5509
                                                                                                                        ndcg@50 - 0.5509
l@50 - 0.995
                    (t3m_env) PS C:\Users\HARIKA\OneDrive\Desktop\nlp_sum\LLMSRec_Syn>
```

python run test.py -m RankNearest -d ml-1m / (lastfm)

```
| 20/20 [00:03<00:00,
17 Nov 20:27
              INFO Received OpenAI Responses
100%|
                                                                                 | 200/200 [00:00<00:00, 833.10it/s]
17 Nov 20:27
                      SAVE DONE! Path: dataset/ml-1m\output_files\final11_gpt
                                                                              -3.5-turbo_ml-1m_RankNearest_output_2020
.json
17 Nov 20:27
                INFO recall@1 - 0.265 recall@5 -
                                                   0.62 recall@10 - 0.76
                                                                                recall@20 - 1.0 recall@50 - 1.0 ndcg@
               ndcg@5 - 0.4521 ndcg@10 - 0.4962
 - 0.265
                                                        ndcg@20 - 0.5569
                                                                                ndcg@50 - 0.5569
(t3m_env) PS C:\Users\HARIKA\OneDrive\Desktop\nlp_sum\LLMSRec_Syn>
```

python run test.py -m RankFixed -d ml-1m / (lastfm)

```
20/20 [00:03<00:00,
17 Nov 20:31
               INFO Received OpenAI Responses
                                                                                 | 200/200 [00:00<00:00, 916.71it/s]
100%
                     SAVE DONE! Path: dataset/ml-1m\output_files\final11_gpt
17 Nov 20:31
                                                                             -3.5-turbo_ml-1m_RankFixed_output_2020.j
                INFO
son
17 Nov 20:31
               INFO recall@1 - 0.195 recall@5 - 0.58 recall@10 - 0.74
                                                                                recall@20 - 1.0 recall@50 - 1.0 ndcg@
1 - 0.195
               ndcg@5 - 0.3993 ndcg@10 - 0.4517
                                                        ndcg@20 - 0.5163
                                                                                ndcg@50 - 0.5163
(t3m_env) PS C:\Users\HARIKA\OneDrive\Desktop\nlp_sum\LLMSRec_Syn>
```

 To run the evaluation with noise injection python run_test.py -m RankAggregated -d ml-1m --noise_type random -noise ratio 0.3

```
| 10/10 [00:02<00:00, 3.39it/s]
17 Nov 20:36
                 INFO Received OpenAI Responses
40%|
                                                                                                     | 79/200 [00:00<00:00, 719.03it/s]R
obocop
['The Basketball Diaries', 'Universal Soldier: The Return', 'Up Close and Personal', 'Hocus Pocus', 'Friday the 13th Part VIII: Jason Takes Manhattan', 'Phantasm II', 'The Crossing Guard', 'Like Water for Chocolate (Como agua para cho colate)', "The Brain That Wouldn't Die"]
100%|
                                                                                                   | 200/200 [00:00<00:00, 796.22it/s]
17 Nov 20:36
                    INFO SAVE DONE! Path: dataset/ml-1m\output_files\final11_qpt-3.5-turbo_ml-1m_RankAqqreqated_output_2
020.json
17 Nov 20:36
                   INFO recall@1 - 0.125 recall@5 - 0.47 recall@10 - 0.655
                                                                                                  recall@20 - 0.995
                                                                                                                               recall@50 - 0
.995 ndcg@1 - 0.125 ndcg@5 - 0.2955 ndcg@10 - 0.3555
                                                                                                            ndcg@50 - 0.4404
                                                                              ndcg@20 - 0.4404
(t3m_env) PS C:\Users\HARIKA\OneDrive\Desktop\nlp_sum\LLMSRec_Syn>
```

python run_test.py -m RankAggregated -d ml-1m --noise_type truncate -- noise ratio 0.3

```
| 10/10 [00:03<00:00, 2.73it/s]
17 Nov 20:48
               INFO Received OpenAI Responses
                                                                                | 200/200 [00:00<00:00, 982.80it/s]
100%
                INFO SAVE DONE! Path: dataset/ml-1m\output_files\final11_gpt-3.5-turbo_ml-1m_RankAggregated_output_2
17 Nov 20:48
020.json
17 Nov 20:48
                INFO recall@1 - 0.27 recall@5 - 0.58 recall@10 - 0.765
                                                                               recall@20 - 1.0 recall@50 - 1.0 ndcg@
               ndcg@5 - 0.4339 ndcg@10 - 0.4929
                                                                               ndcg@50 - 0.5504
1 - 0.27
                                                       ndcg@20 - 0.5504
(t3m_env) PS C:\Users\HARIKA\OneDrive\Desktop\nlp_sum\LLMSRec_Syn>
```

python run_test.py -m RankAggregated -d ml-1m --noise_type Duplicate -- noise ratio 0.3

```
'Persuasion', 'Meet the Deedles', 'In Search of the Castaways', 'Audrey Rose', 'The Jungle Book', 'It Conquered the World', 'Affliction']
 Westworld
['Young Frankenstein', 'Grand Canyon', 'Four Weddings and a Funeral', 'Room at the Top', "A Soldier's Daughter Never Cries", 'Bad Boys', 'Rambo: First Blood Part II', 'Mad Max Beyond Thunderdome', 'Running Scared', 'The NeverEnding St ory III', 'Tom & Viv', 'Jefferson in Paris', 'Jack', 'The Apple Dumpling Gang Rides Again', 'Pale Rider', "Bram Stoke r's Dracula", 'Gandhi', 'F/X', 'Run Lola Run (Lola rennt)']
Who's Afraid of Virginia Woolf?
['The Last Temptation of Christ', 'The African Queen', 'The Paradine Case', 'Red Sorghum (Hong Gao Liang)', 'Top Hat', 'Run Lola Run (Lola rennt)', 'The Secret of Roan Inish', 'The Myth of Fingerprints', 'Broken English', 'The Yards', 'Run Silent, Run Deep', 'Canadian Bacon', 'The Brandon Teena Story', 'Nosferatu (Nosferatu, eine Symphonie des Graue ns)', 'Dracula', 'Sliding Doors', 'Unzipped', "The Rich Man's Wife", "Porky's"]
    49%
                                                                                                                                                                                                                                                                                                                              | 98/200 [00:00<00:00, 896.69it/s]C
  op Land
['Kolya', 'Lone Star', 'My Giant', 'The Greatest Show on Earth', 'Aiqing wansui', 'Jar, The (Khomreh)', 'Delta of Ven us', 'Star Trek III: The Search for Spock', 'Psycho II', 'Addicted to Love', 'Shaft', 'Under Capricorn', '2 Days in the Valley', 'Surf Nazis Must Die', "Who's Harry Crumb?", 'Tokyo Fist', 'The Substitute', 'Palmetto', 'Spy Hard']
North by Northwest

[City | Santal | American in Davis And III | American in Davis And II | American in Davis And
['City Lights', 'American in Paris, An', 'That Thing You Do!', 'Ruby in Paradise', "The Butcher's Wife", 'Dancing at Lughnasa', "The 'burbs", 'Me Myself I', 'Best Man, The (Il Testimone dello sposo)', 'Small Soldiers', 'Three to Tango', 'The Invisible Man', 'Cross of Iron', 'Cujo', 'The Cable Guy', 'Anne Frank Remembered', 'Star Trek V: The Final Frontier', 'Amityville 3-D', "Child's Play 3"]
100%|
                                                                                                                                                                                                                                                                                                                        | 200/200 [00:00<00:00, 913.59it/s]
 17 Nov 20:56
                                                              INFO SAVE DONE! Path: dataset/ml-1m\output_files\final11_gpt-3.5-turbo_ml-1m_RankAggregated_output_2
020.json
17 Nov 20:56
l@50 - 0.975
                                                             INFO recall@1 - 0.5 recall@5 - 0.695 ndcg@1 - 0.5 ndcg@5 - 0.6021 ndcg@10 - 0.6306
                                                                                                                                                                                                                                                      recall@10 - 0.785
                                                                                                                                                                                                                                                                                                                                                   recall@20 - 0.975
                                                                                                                                                                                                                                                                                                                                                                                                                                                 recal
                                                                                                                                                                                                                                                                                     ndcg@20 - 0.6774
                                                                                                                                                                                                                                                                                                                                                                                   ndcg@50 - 0.6774
  (t3m_env) PS C:\Users\HARIKA\OneDrive\Desktop\nlp_sum\LLMSRec_Syn>
```

We also tried for different seeds also.

python run_test.py -m RankNearest -d ml-1m --noise_type duplicate --noise_ratio 0.3 -sd 42

```
['The Rock', 'Just Cause', 'The Mighty Ducks', 'Cobb', "Ulee's Gold", 'Annie Hall', 'Casablanca', 'Enchanted April', 'Sl
all We Dance? (Shall We Dansu?)', 'The Hudsucker Proxy', 'Get Over It', 'Trekkies', 'Easy Money', 'Wrongfully Accused',
'Jimmy Hollywood', 'Shattered Image', "I Love You, Don't Touch Me!", 'The Baby', 'Wilde']
  Michael
  'Ilchied Collins', 'The Rocketeer', 'Santa Claus: The Movie', 'The Abyss', 'Magnum Force', 'Good Morning, Vietnam', 'Th
e War at Home', 'Visitors, The (Les Visiteurs)', 'Eternity and a Day (Mia eoniotita ke mia mera )', 'Funny Face', 'Romeo
and Juliet', 'Godzilla 2000 (Gojira ni-sen mireniamu)', 'Winnie the Pooh and the Blustery Day', 'Fall Time', 'The Compu
ter Wore Tennis Shoes', 'Tarzan the Fearless', 'One Little Indian', 'Teaching Mrs. Tingle', 'Boxing Helena']
Patton
['Apocalypse Now', 'The Broken Hearts Club', 'Gods and Monsters', 'The Asphalt Jungle', 'The War Zone', 'Indiana Jones and the Temple of Doom', 'The Man Without a Face', 'Just the Ticket', 'Girlfight', 'Elstree Calling', 'Shiloh', 'A Good an in Africa', 'The Jungle Book', 'Duets', "The 'burbs", 'Homeward Bound II: Lost in San Francisco', "You've Got Mail", 'One Fine Day', 'Halloween: The Curse of Michael Myers']
 ['The Commitments', 'The 13th Warrior', 'Mighty Aphrodite', 'The Getaway', 'Mortal Kombat: Annihilation', 'The Road to N
ellville', 'Twin Dragons (Shuang long hui)', "Ferris Bueller's Day Off", 'Yankee Zulu', 'The Secret Agent', 'Black Dog'
'Pal Joey', 'Diebinnen', 'Exit to Eden', 'Target', 'I Got the Hook Up', 'Herbie Goes Bananas', 'Tango', 'The Life and
 imes of Hank Greenberg']
Jaws 3-D
  'The Terminator', 'Addams Family Values', 'Lord of Illusions', 'Assassins', 'Black Sabbath (Tre Volti Della Paura, I)',
'The Thing', 'Fatal Attraction', 'Everyone Says I Love You', 'Full Speed', 'Terminal Velocity', 'Bonheur, Le', 'The Gno
ne-Mobile', 'Holiday Inn', 'One Tough Cop', 'Juno and Paycock', 'The Mask of Zorro', 'Jeffrey', 'Children of a Lesser Go
d', 'Head On']
100%|
                                                                                                                                                                                   | 200/200 [00:00<00:00, 1430.54it/s]
18 Nov 01:54
                                   INFO SAVE DONE! Path: dataset/ml-1m\output_files\final11_gpt-3.5-turbo_ml-1m_RankNearest_output_42.json
18 Nov 01:54
                                  INFO Evaluation completed in 66.32 seconds
                                                                                                                     recall@5 - 0.705
18 Nov 01:54
                                  INFO Test Results:recall@1 - 0.445
                                                                                                                                                                             recall@10 - 0.785
                                                                                                                                                                                                                                  recall@20 - 0.97
                                                                     ndcg@1 - 0.445 ndcg@5 - 0.5788 ndcg@10 - 0.6045
                                                                                                                                                                                              ndcg@20 - 0.6507
                 recall@50 - 0.975
                                                                                                                                                                                                                                                  ndcg@50
    0.6507
  (t3m_env) PS C:\Users\Gouthami Sravya\Downloads\NLP_HW3\LLMSRec_Syn>
```

python run_test.py -m RankAggregated -d ml-1m / (lastfm) -sd 123