Bambang Priyanto (001202100111) Artificial intelligence

collaborative_filtering

```
PROBLEMS OUTPUT DEBUGCONSOLE TERMINAL

• bengsky@bengsky:~/S5/AI/py/Chapter08$ python3 collaborative_filtering.py --user "David Smith"

Users similar to David Smith:

User Similarity score

Chris Duncan 1.0

Bill Duffy 0.99

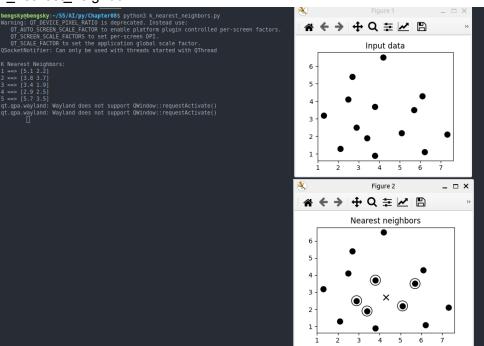
Adam Cohen 0.91

• bengsky@bengsky:~/S5/AI/py/Chapter08$
```

Compute_score

```
    bengsky@bengsky:~/S5/AI/py/Chapter08$ python3 compute_scores.py --user1 "David Smith" --user2 "Brenda Peterson" --score-type Pearson
Pearson score:
        -0.7236759610155113
    bengsky@bengsky:~/S5/AI/py/Chapter08$ python3 compute_scores.py --user1 "David Smith" --user2 "Brenda Peterson" --score-type Euclidean
Euclidean score:
        0.142433965666283
        bengsky@bengsky:~/S5/AI/py/Chapter08$
```

K_nearest_neighbor



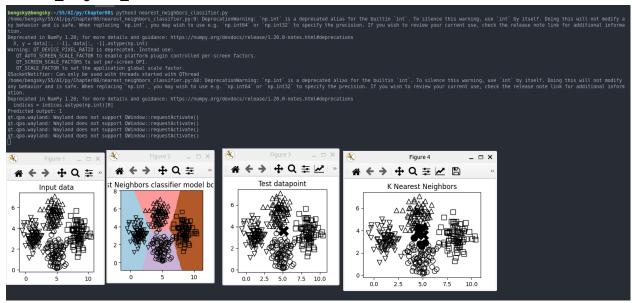
Movie recomender

```
bengsky@bengsky:~/S5/AI/py/Chapter08$ python3 movie_recommender.py --user "David Smith"

Movie recommendations for David Smith:

1. Roman Holiday
bengsky@bengsky:~/S5/AI/py/Chapter08$
```

Nearest_neighbor_classifier



pipeline trainer