



Electrical and Computer Engineering Department

ENCS3340 Artificial Intelligence

Project

Books Recommender System test results

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date: 1/1/2025

Instructor: Prof. Adnan Yahya

Neural Collaborative Filtering

Book Recommendation System



Book Recommendation System

User ID:

Get recommendations using kNN

Get recommendations using ANN

Get recommendations using Clustering

Recommended Books:

A Year in Provence

Zombies of the Gene Pool

SISTERS, THE

The Hearing

The Runaway Jury

Model Metrics:

Accuracy: 0.87

Precision: 0.90

recall: 0.96

F1_Score: 0.93



ENG



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1/2/2025



Book Recommendation System

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Book Recommendation System

User ID:

11676

Get recommendations using kNN

Get recommendations using ANN









Get recommendations using Clustering

Recommended Books:

What We Keep : A Novel (Ballantine Reader's Circle)
Operation: Husband (Harlequin American Romance, No 581)
Sisterhood
Streets Of Fire (Superomance, No 407)
Saving Faith


Model Metrics:


Accuracy: 0.56
Precision: 0.58
recall: 0.84
F1_Score: 0.69




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ENG







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Book Recommendation System

Book Recommendation System

User ID:

98391

Get recommendations using kNN

Get recommendations using ANN

Get recommendations using Clustering

Recommended Books:

Crazy in Alabama
Randall Honor (Brides For Brothers) (Harlequin American Romance, No. 930)
Bless This House
LA Piramide De Peter, O Lo Acabaremos Entendiendo?/the Peter Pyramid, or Will V
Diary of a Provincial Lady (Provincial Lady)

Model Metrics:

Accuracy: 0.65
Precision: 0.96
recall: 0.66
F1_Score: 0.78

ENG

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Book Recommendation System

User ID:

76499

Get recommendations using kNN

Get recommendations using ANN

Get recommendations using Clustering

Recommended Books:

The Boat of a Million Years
RED DEATH : Featuring an Original Easy Rawlins Short Story "Silver Lining" (Easy
How to Write Irresistible Query Letters (Writer's Basic Bookshelf)
Freelance Rates and Standard Practice: National Writers Union Guide to Freelance
Silver Pigs: A Detective Novel in Ancient Rome

Model Metrics:

Accuracy: 0.81
Precision: 0.84
recall: 0.96
F1_Score: 0.89

Book Recommendation System

Book Recommendation System

User ID:

95359

Get recommendations using kNN

Get recommendations using ANN

Get recommendations using Clustering

Recommended Books:

Salt Fish Girl
When the Storm Breaks
The Venetian's Wife: A Strangely Sensual Tale of a Renaissance Explorer, a Compu
Therapeutic exercise: Foundations and techniques
If Only It Were True

Model Metrics:

Accuracy: 0.55
Precision: 0.85
recall: 0.46
F1_Score: 0.60

ENG

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K-Nearest Neighbors

Book Recommendation System

Book Recommendation System

User ID:

Get recommendations using kNN

Get recommendations using ANN

Get recommendations using Clustering

Recommended Books:

Heart of the Sea (Irish Trilogy)
Tears of the Moon (Irish Trilogy)
Macgregor Brides (Macgregors)
Portrait in Death

Model Metrics:

Accuracy: 0.74
Precision: 0.92
recall: 0.69
F1_Score: 0.79

Book Recommendation System

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Book Recommendation System

User ID:

11676

Get recommendations using kNN

Get recommendations using ANN









Get recommendations using Clustering

Recommended Books:

Summer Sisters
The Alienist
1st to Die: A Novel
Bridget Jones's Diary
Night Whispers


Model Metrics:


Accuracy: 0.54
Precision: 0.65
recall: 0.29
F1 Score: 0.40




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User ID:

Get recommendations using kNN

Get recommendations using ANN

Recommended Books:

Model Metrics:



Book Recommendation System

User ID:

Get recommendations using kNN

Get recommendations using ANN

Get recommendations using Clustering


Recommended Books:

Little Altars Everywhere: A Novel
The Red Tent (Bestselling Backlist)
A Prayer for Owen Meany
Fear Nothing
Harry Potter and the Chamber of Secrets (Book 2)

Model Metrics:

Accuracy: 0.54
Precision: 0.50
recall: 0.77
F1 Score: 0.61

Clustering

 Book Recommendation System

Book Recommendation System

User ID:

Get recommendations using kNN

Get recommendations using ANN


Get recommendations using Clustering





Recommended Books:

1984
A Heartbreaking Work of Staggering Genius
A Is for Alibi (Kinsey Millhone Mysteries (Paperback))
1st to Die: A Novel
A Prayer for Owen Meany

Model Metrics:

Accuracy: 0.27
Precision: 0.89
recall: 0.20
F1_Score: 0.33



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Book Recommendation System

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Book Recommendation System

User ID:

11676

Get recommendations using kNN

Get recommendations using ANN









Get recommendations using Clustering

Recommended Books:

A Bend in the Road
Mercy
Back Roads
Heartbreaker
Animal Farm


Model Metrics:


Accuracy: 0.27
Precision: 0.89
recall: 0.20
F1_Score: 0.33




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ENG







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