

Data Warehouse
Project

Movie Recommendation System

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Movie Recommendation

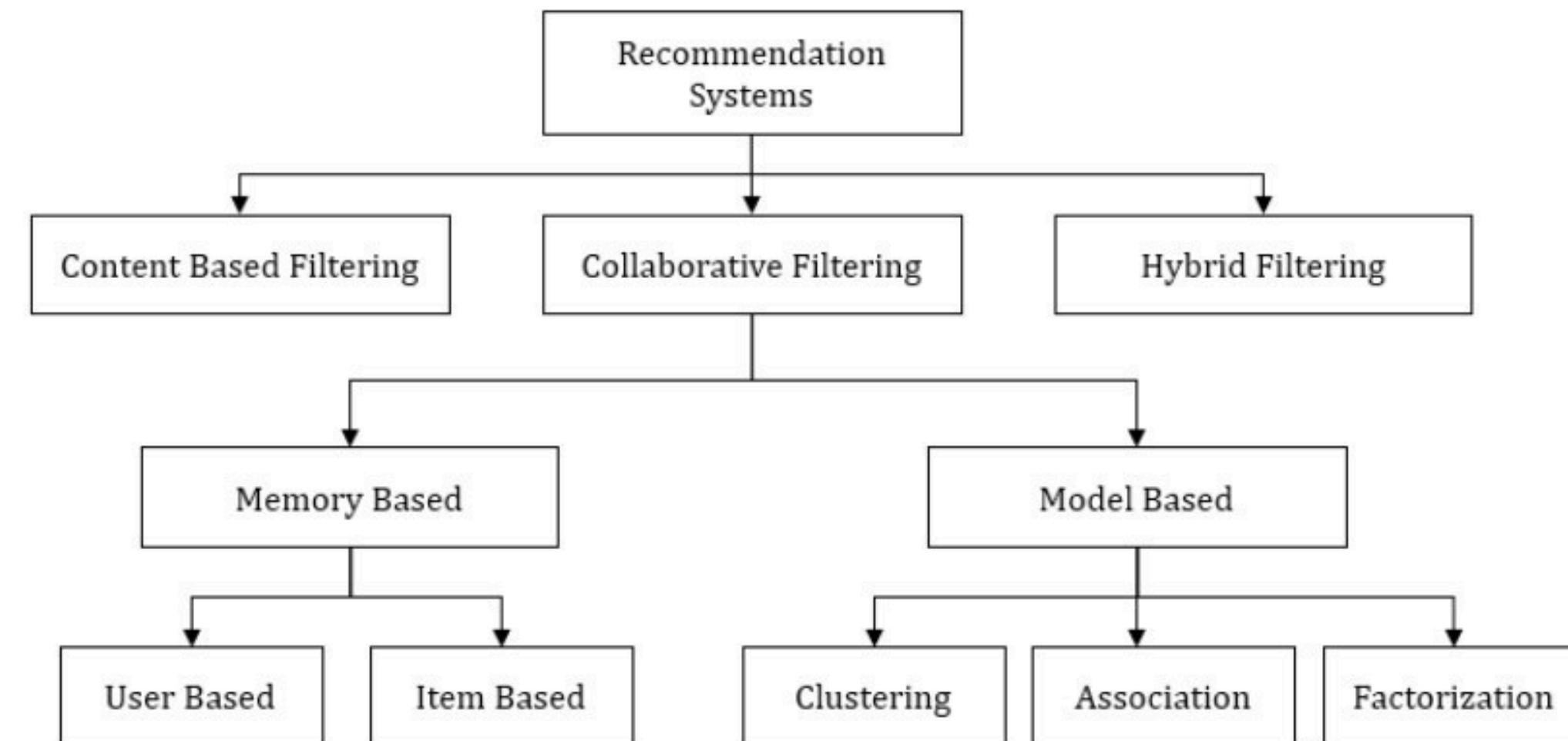
About our project:

Our movie recommendation website offers personalized film suggestions using advanced algorithms, tailoring recommendations based on user preferences and viewing habits for a seamless and enjoyable experience.

Literature Analysis

- [1] P. K. Roy, S. S. Chowdhary, and R. Bhatia, “A Machine Learning approach for automation of Resume Recommendation system”
- [2] S. S. Khanal, P. W. C. Prasad, A. Alsadoon, and A. Maag, “A systematic review: machine learning based recommendation systems for e-learning”
- [3] B. Ramzan vd., “An Intelligent Data Analysis for Recommendation Systems Using Machine Learning”
- [4] A. Nawrocka, A. Kot, and M. Nawrocki, “Application of machine learning in recommendation systems”
- [5] A. Fanca, A. Puscasiu, D.-I. Gota, ve H. Valean, “Recommendation Systems with Machine Learning”
- [6] I. Portugal, P. Alencar, and D. Cowan, “The use of machine learning algorithms in recommender systems: A systematic review”
- [7] Mahesh Goyani and Neha Chaurasiya “A Review of Movie Recommendation System: Limitations, Survey and Challenges”

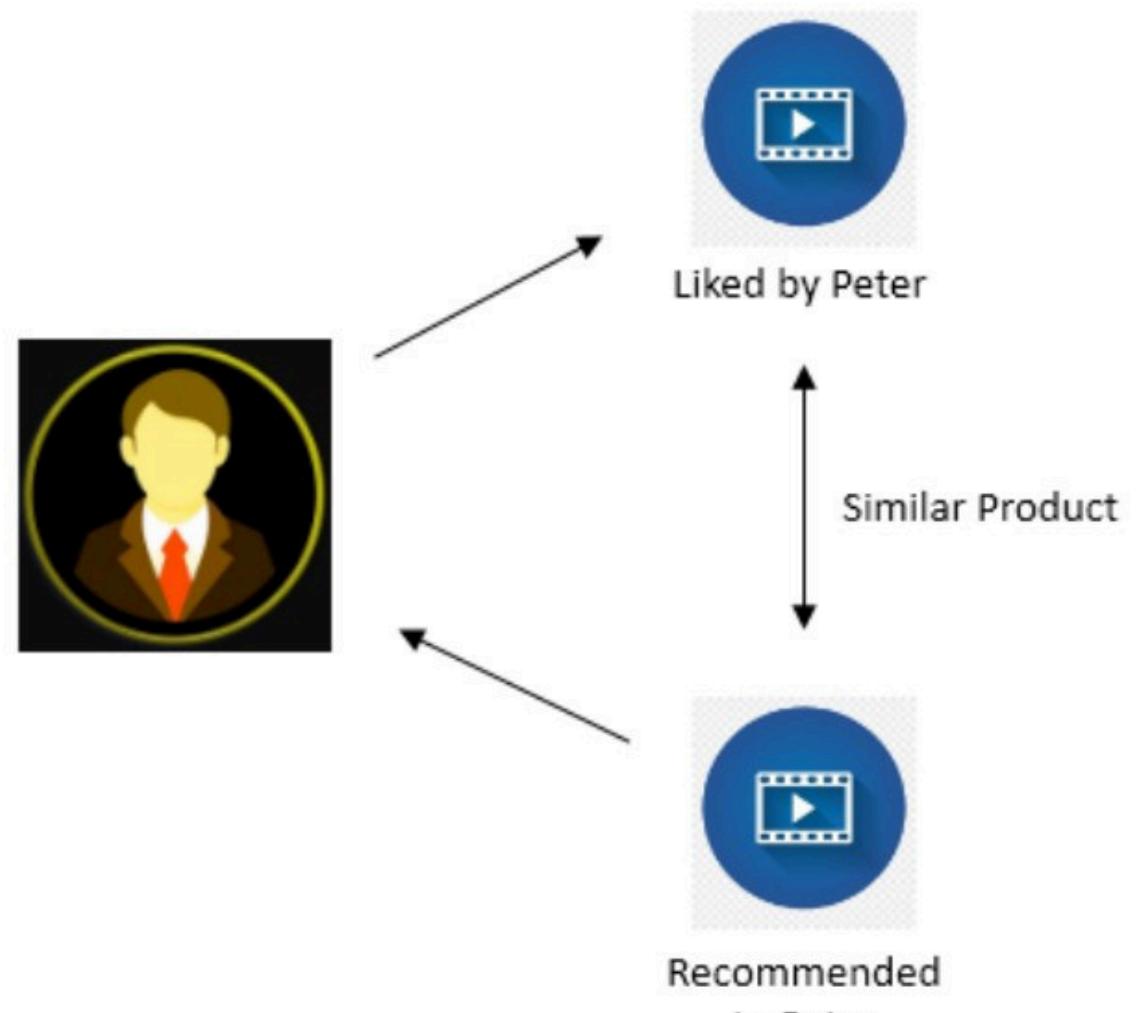
Types of Recommendation Systems



Content Based Filtering

What is Content Based Filtering?

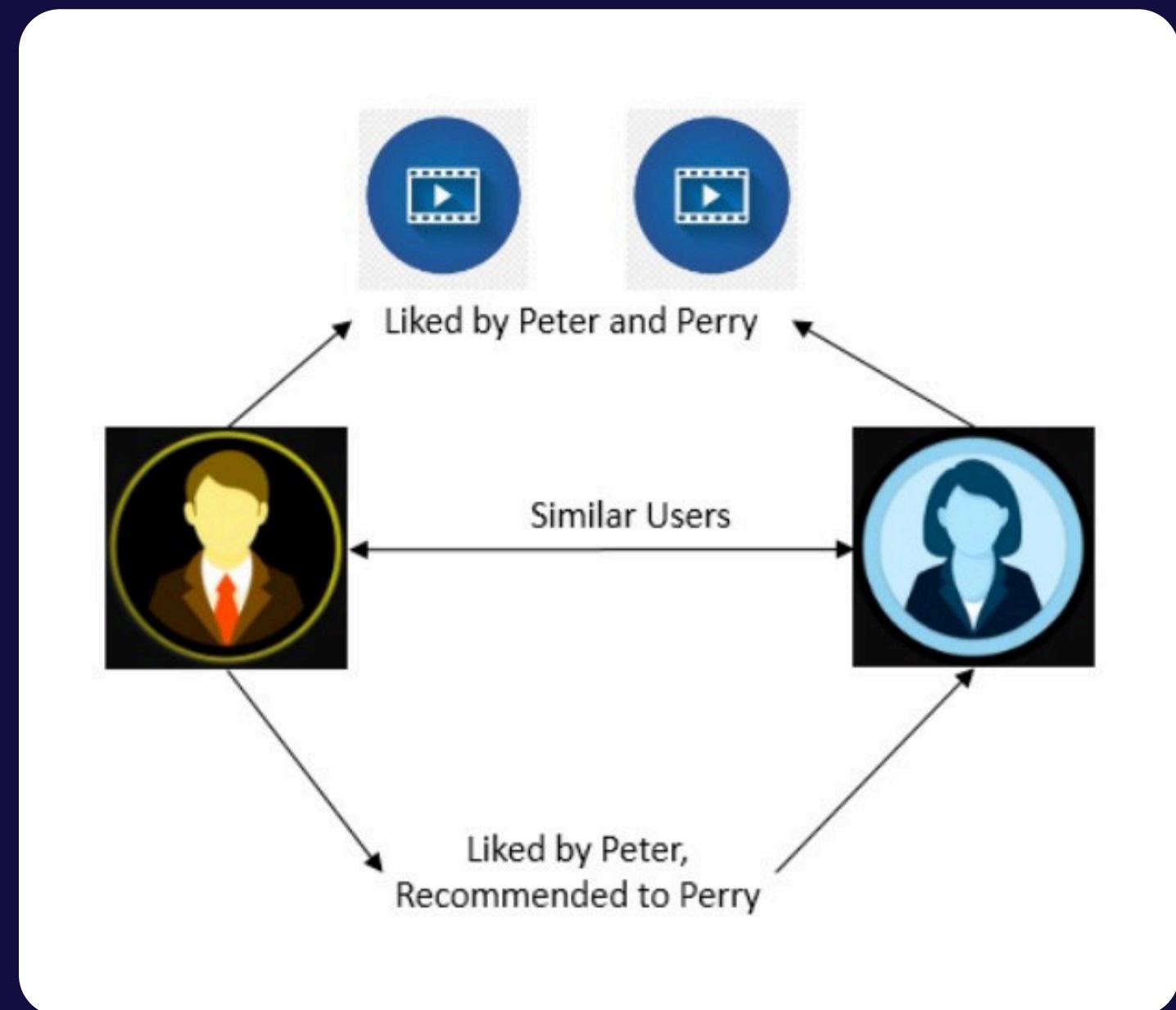
Content-Based Filtering recommends items based on the features of items the user has previously liked, creating a personalized profile that is compared with item attributes. Its advantages include transparency and independence, but it can suffer from limited content diversity and overspecialization.



Collaborative Filtering

What is Collaborative Filtering?

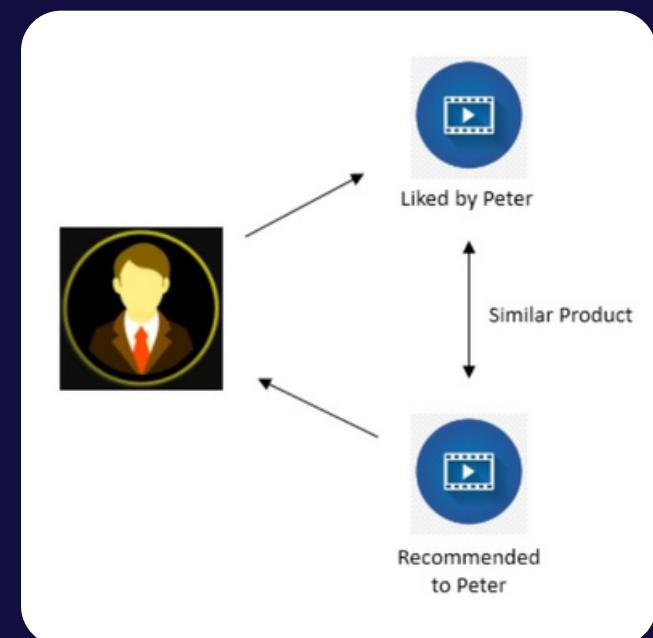
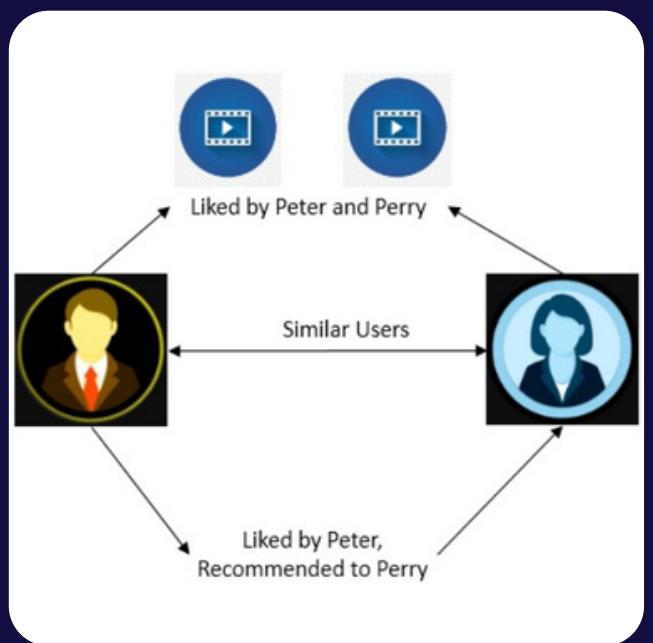
Collaborative Filtering makes recommendations based on the behavior and preferences of similar users, often leading to more accurate suggestions but facing challenges like the cold start problem. Hybrid Systems combine both methods to leverage their strengths, improving recommendation accuracy and diversity while managing complexity.



Hybrid Filtering

What is Hybrid Filtering?

Hybrid Systems combine content-based and collaborative filtering techniques to enhance recommendation accuracy by utilizing both item features and user behavior. This approach improves diversity and personalization but can be more complex and resource-intensive to implement.



In our project we decided to use Content Based Filtering because...



Efficiency

Hybird systems are not reliable and consuming more computation power and memory

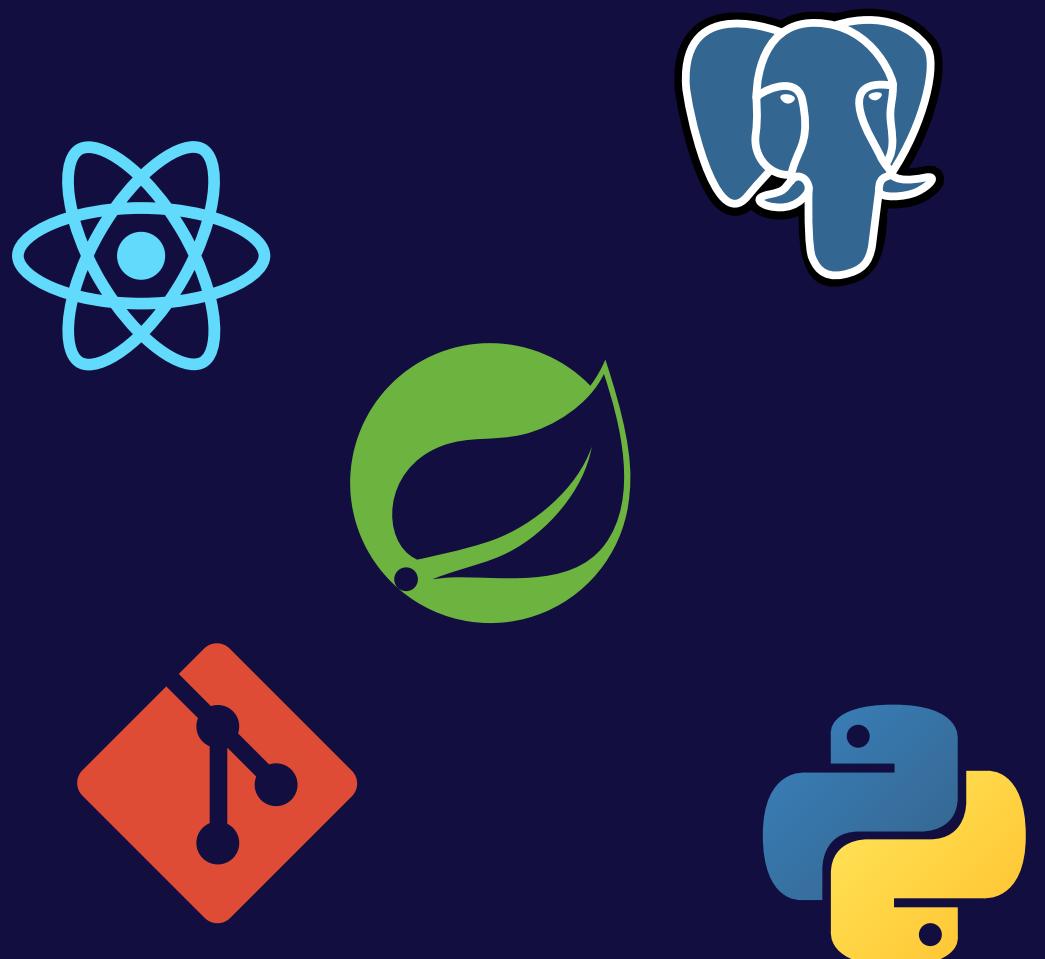
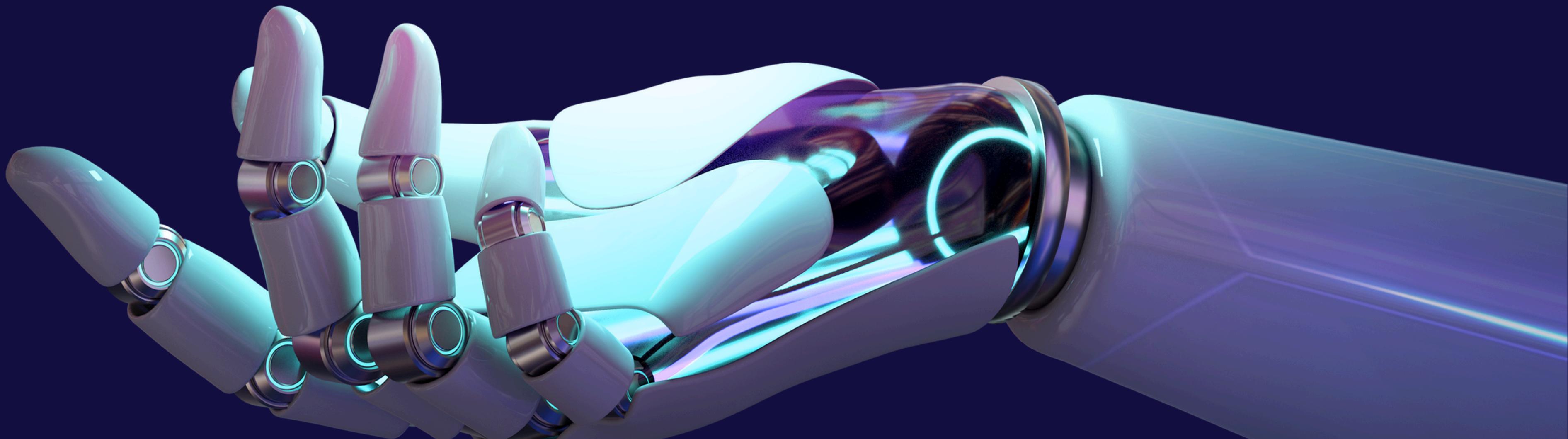
Compatibility

Based on our dataset and the findings from our research papers, we have decided to implement content-based filtering.

Accuracy

By utilizing these characteristics, content-based filtering is expected to deliver more accurate and personalized recommendations tailored to users' preferences.

Tech Stack



Tech Stack

React will handle the user interface, allowing for dynamic and responsive interactions with the application.

Spring Boot will serve as the backend framework, providing the core business logic, handling HTTP requests, and communicating with the PostgreSQL database to store and retrieve data.

PostgreSQL will be used as the relational database to manage and persist data, ensuring efficient data storage and retrieval.

Python specifically with Torch, will be used for AI model training, providing powerful machine learning capabilities to the project. The trained models will be accessible via a RESTful API built with Spring Boot, enabling seamless communication between the backend and the AI module.

This architecture ensures smooth integration between the frontend, backend, and AI components, creating a robust and scalable system.

Thanks
for your
attention!
Any
questions?





Riskler

Gözetim ve mahremiyet gibi konularda riskler oluşabilir.

İşsizlik ve eşitsizlik, yapay zeka teknolojilerinin kullanımı sonucunda ortaya çıkabilir.

Algoritmik önyargı, yapay zeka sistemlerindeki etik sorunlardan biridir.

Etik Sorunlar

Yapay Zeka, insan yerine karar verirse ne olur ?

Yapay Zeka, suçu olanları doğru tespit etmek için kullanılmalıdır.

Yapay zeka ve insan hakları arasında bir bağlantı olmalıdır.

Yapay Zeka Uygulama Alanları



Finans Sektörü

Yapay Zeka, finansal verileri analiz ederek şirketlerin yatırım kararlarını destekler.



Tıp

Yapay Zeka, kanser taraması, tıbbi görüntüleme ve tanı yapmak için kullanılabilir.



Savunma Sanayi

Yapay Zeka, insansız hava araçları ve füze sistemlerinin yönetimi için kullanılıyor.



Otonom Araçlar

Yapay Zeka, sürücüsüz araçların kontrolünü sağlayarak trafikteki güvenliği artırıyor.

Kaynak Sayfası

Canva Sunumlar sayesinde sunum yapmanın
sührini ve eğlencesini keşfedin. Sun
modundayken aşağıdaki tuşlara basın!

B	Bulanıklık için	Baloncuklar için	O
D	Trampet için	Kapatmak için	X
Q	Sessizlik için	Zamanlayıcı için 0-9 arasında herhangi bir sayı	
C	Konfeti için	Sunmadan önce bu sayfayı silmeyi unutmayın.	