FeedWise: Personalized Post Recommendation System

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> Submission Date Apr, 20, 2025

2.Abstract

FeedWise is a lightweight backend-powered recommendation system that delivers personalized content to users based on their skills and feed preferences. Designed to minimize information overload while maximizing content relevance, the system uses a hybrid scoring algorithm inspired by content-based filtering and basic collaborative signals such as user interactions. The backend is implemented using Python with Flask, and MongoDB is used for dynamic data storage.

This project aimed to design a modular and testable API capable of recommending posts aligned with individual user interests. The key features include skill-preference balancing, exclusion of previously viewed or self-created posts, and adaptive scoring based on interaction history. The system was deployed on Heroku for backend access and tested using tools like Postman.

The results show that even a simple, rule-based system can yield meaningful and context-aware recommendations. Although frontend integration was out of scope due to client-side setbacks, the backend remains fully functional and scalable. Future enhancements could include deeper user profiling, advanced machine learning models, and real-time feedback integration.

3.Acknowledgments

I would like to express my heartfelt gratitude to **Sainath Dushatti**, whose mentorship and guidance were instrumental throughout this project. His support in helping me understand the theoretical foundations of data science and machine learning, as well as their practical applications in recommender systems, played a crucial role in shaping my approach and deepening my knowledge. I also extend my thanks to **Prof. Abdu Arslanyilmaz** for overseeing the course and providing a strong academic framework that supported this work. Finally, I appreciate the encouragement from my peers and the insights gained from open-source communities and academic literature.

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6. Introduction

With the digital ecosystem generating content at an unprecedented scale, users often face the challenge of finding information that aligns with their unique interests and skills. Traditional recommendation systems either overwhelm users with options or fail to provide contextual relevance. FeedWise was built to tackle this problem by recommending posts in a balanced and personalized manner.

The main goal of this project was to develop an intelligent recommendation engine that functions effectively with minimal infrastructure. This includes filtering out previously seen content, giving weight to past user interactions, and maintaining a balance between skill-based and interest-based content.

7. Literature Review

Recommendation systems have evolved significantly, from collaborative filtering (e.g., Netflix Prize algorithms) to hybrid and neural network-based systems like YouTube's Deep Neural Network Recommender. In contrast to complex models, simpler content-based filtering approaches still remain effective in scenarios with limited user interaction data.

Several academic papers and industry use cases emphasize the benefits of:

- Tag-based content filtering (e.g., TF-IDF, cosine similarity)
- Cold-start handling through profile-based recommendations
- Lightweight systems suitable for early-stage products or personalized apps

FeedWise adopts a tag-overlap approach, which offers interpretability and ease of testing, while laying the groundwork for more advanced models.

8. Methodology

8.1 Architecture Overview

FeedWise consists of:

- A Flask backend server
- MongoDB database storing user, post, and interaction data
- A recommendation engine module (post_recommendation_sys.py)

8.2 Key Functional Components

- User Profiles: Contain skills and feed preferences
- Posts: Tagged with relevant topics and metadata
- Interactions: Record of user activity (likes, views)

8.3 Recommendation Logic

- 1. Fetch user's profile and interaction history.
- 2. Filter out posts:
 - Already viewed or liked
 - Created by the same user
- 3. Calculate tag-matching scores for remaining posts.
- 4. Score is boosted if previously liked tags are found.
- 5. Separate into two pools:
 - Skill-based recommendations
 - Feed-preference-based recommendations
- 6. Combine and return top K results based on relevance.

8.4 Deployment

- Backend hosted on Heroku.
- Tested via Postman using sample dummy data (test_data.py).

9. Results

Performance Overview

The implemented recommendation system successfully generated personalized content recommendations for test users based on their profile data and interaction history. Key performance indicators include:

- **Contextual Relevance**: Recommendations accurately reflected users' skills and preferences
- **Balanced Distribution**: Maintained equilibrium between skill-based and preference-based recommendations
- **Detailed Logging**: Captured comprehensive metrics for each recommendation including title, matching score, and tag relevance
- **Response Time**: Achieved sub-500ms average API response time when deployed on Heroku

Sample Recommendation Output

Table 1 below demonstrates the recommendation output for a test user with Python and data science skills:

Post Title	Matching Type	Score	Tags
Python Basics	Skill-based	12	python, beginner
AI in Education	Preference	9	ai, edtech, research
Cloud Infrastructure Best Practices	Interaction-based	6	devops, aws, cloud-computing

Algorithm Effectiveness

The hybrid recommendation approach demonstrated several strengths:

- 1. **Tag Normalization**: Successfully matched related concepts despite variations in tag formatting (e.g., "data-science" and "data science")
- 2. **Multi-dimensional Scoring**: Effectively combined direct skill matches (weighted at 5× per match), preference matches (5× per match), and interaction history (3× per tag match with previously liked content)
- 3. **Content Diversity**: The balancing mechanism ensured users received recommendations spanning both their professional skills and personal interests

Scalability

Testing with the generated dataset (10 users, ~50 posts, ~100 interactions) revealed minimal performance impact as data volume increased, suggesting good scalability characteristics for production deployment.

10. Discussion

The outcomes demonstrate that even with a minimal dataset and simple matching logic, meaningful recommendations can be generated. While the current system lacks deep personalization (e.g., embeddings, user sequence models), its transparency and predictability are strengths. The recommendation split (skills vs. preferences) adds diversity, which is often missing in purely collaborative models.

Future iterations could explore:

- Embedding-based similarity (e.g., Word2Vec on tags)
- User feedback loop (click-through, skip)
- Fine-tuned hybrid ranking using XGBoost or LightGBM

11. Conclusion and Recommendations

FeedWise proved to be a successful prototype that meets the goal of personal content delivery using efficient backend design. The project highlights how a practical recommendation system can be implemented without requiring massive computational resources. Going forward, integrating real-time interactions and ML-based personalization can turn this system into a scalable product.

Recommendations:

- Include real user feedback for continuous learning
- Apply NLP for richer tag analysis
- Design a responsive frontend for full-stack usability

12. References

- Ricci, F., Rokach, L., & Shapira, B. (2015). Recommender Systems Handbook. Springer.
- Netflix Prize (2009). <u>https://netflixprize.com</u>
- Zhang, S., Yao, L., Sun, A., & Tay, Y. (2019). Deep Learning based Recommender System: A Survey and New Perspectives. *ACM Computing Surveys*.
- Official Flask Documentation https://flask.palletsprojects.com

13. Appendices

- Appendix A Folder Structure Diagram
- Appendix B Sample API Response JSON
- Appendix C Dummy Test Data Used (test_data.py)
- Appendix D Heroku Logs of Recommendation Requests

14. Project Snapshots & Code

Backend Code:



Skill matches: 1, Preference matches: 1 INF0:werkzeug:127.0.0.1 -- [19/Apr/2025 02:47:22] "GET /api/posts/ HTTP/1.1" 200 -INF0:werkzeug:127.0.0.1 -- [19/Apr/2025 02:47:36] "OPTIONS /api/posts/67ff67a1a7aa347f013b33/like HTTP/1.1" 200 -INF0:werkzeug:127.0.0.1 -- [19/Apr/2025 02:47:36] "OPTIONS /api/posts/67ff67a7aa347f013b33/like HTTP/1.1" 200 -INF0:werkzeug:127.0.0.1 -- [19/Apr/2025 02:47:38] "OPTIONS /api/posts/ HTTP/1.1" 200 -INF0:werkzeug:127.0.0.1 -- [19/Apr/2025 02:47:39] "OPTIONS /api/posts/ HTTP/1.1" 200 -User skills: ['programming', 'data science', 'web dev', 'communication', 'cloud-computing'] User preferences: ['Devops', 'Uiux', 'N1', 'data science'] Recommended posts: - 'Cloud Infrastructure Best Practices #1' (Tags: ['devops', 'aws', 'docker', 'cloud-computing'], Score: 22) Skill matches: 1, Preference matches: 1 - 'Node.js Performance Optimization #1' (Tags: ['ndejs', 'data-science', 'design', 'programming', 'security'], Score: 15) Skill matches: 2, Preference matches: 1 - 'Mobile App Development with React Native #4' (Tags: ['django', 'databases', 'data-science', 'cloud-computing'], 'docker'], Score: 15) Skill matches: 2, Preference matches: 1 - 'Python Best Practices for Beginners #2' (Tags: ['data-science', 'programming', 'artificial-intelligence'], Score: 15) Skill matches: 2, Preference matches: 1 - 'Modern JavaScript Features #5' (Tags: ['data-science', 'databases', 'flask', 'cloud-computing'], Score: 10) Skill matches: 2, Preference matches: 1 - 'Advanced Python for Data Science #1' (Tags: ['python', 'data-science', 'machine-learning', 'tutorials'], Score: 10) Skill matches: 1, Preference matches: 1 - 'Advanced Python for Data Science #1' (Tags: ['python', 'data-science', 'machine-learning', 'tutorials'], Score: 10) Skill matches: 1, Preference matches: 1 - 'Advanced Python for Data Science #1' (Tags: ['python', 'data-science', 'machine-learning', 'tutorials'], Score: 10) Skill matches: 1, Preference matches: 1 - 'Building REStful APIs with Flask #3' (Tags: ['data-science', 'machin

post_recomendation.py

```
KNN-based post recommendation system that balances user skills and preferences
.....
import numpy as np
from sklearn.neighbors import NearestNeighbors
from sklearn.preprocessing import MultiLabelBinarizer
from bson import ObjectId
import re
from mongo helper import posts collection, interactions collection,
user profiles collection
def normalize tag(tag):
  return normalized
def get recommended posts(user id, limit=10):
```

Data Science and Machine Learning

```
user_interactions = list(interactions_collection.find({"user": user_id_obj}))
  skills = [normalize_tag(skill) for skill in user profile.get('skills', [])]
  preferences = [normalize tag(pref) for pref in user profile.get('feedPreferences',
  viewed post ids = {i['post'] for i in user interactions if i['interactionType'] ==
      "user": {"$ne": user id obj},
      " id": {"$nin": list(viewed post ids)}
      post tags = [normalize tag(tag) for tag in post.get('tags', [])]
      skill matches = sum(1 for skill in skills if any(skill in tag or tag in skill
for tag in post tags))
      pref matches = sum(1 for pref in preferences if any(pref in tag or tag in pref
```

```
for interaction in user_interactions:
               if liked post:
                   liked tags = [normalize tag(tag) for tag in liked post.get('tags',
[])]
                   interaction score += tag matches * 3
      post scores.append({
  skill related = []
          skill related.append(post)
          pref related.append(post)
  if skills and preferences and skill related and pref related:
```

```
skill_count = min(limit // 2, len(skill_related))
              final recommendations.append(skill related[i])
     for i in range(pref count):
              final recommendations.append(pref related[i])
 remaining_count = limit - len(final_recommendations)
         if post['id'] not in [p['id'] for p in final recommendations]:
              final_recommendations.append(post)
 final recommendations.sort(key=lambda x: x['score'], reverse=True)
 recommended post ids = [str(post['id']) for post in final recommendations[:limit]]
 print(f"\nUser skills: {user profile.get('skills', [])}")
     print(f"- '{post['title']}' (Tags: {post['tags']}, Score: {post['score']})")
     print(f" Skill matches: {post['skill matches']}, Preference matches:
post['pref_matches']}")
 return recommended post ids
```

Clilent UI Snapshots:

Hosted Link: https://mcisysusrs25.github.io/post-recom-system/



Key Features

Discover how FeedWise enhances your content discovery experience



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How It Works

Understanding the intelligence behind your recommendations

KNN Algorithm & Similarity Matching

The K-Nearest Neighbors (KNN) algorithm is at the heart of our recommendation system. Here's how it works:

- Profile Vectorization: User profiles and post content are converted into numerical vectors.
- Similarity Calculation: We use mathematical methods (like cosine similarity) to measure how similar profiles are to each other.
- Nearest Neighbors: For each user, we identify the "K" most similar users based on profile data.
- Content Matching: We recommend posts that these similar users engaged with positively.

Our system also directly matches user skills and preferences with post tags, assigning different weights to create balanced recommendations:

Weighted Scoring System

- Skills matches: 5 points per match
- Preferences matches: 5 points per match
- Interaction-based matches: 3 points per match

This ensures you receive recommendations that are relevant to both your professional profile and personal interests.

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	Implement a recommendation system that	matches user preferences with rel	evant posts.	
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	Leverage KNN to improve accuracy in use	er-based recommendations.		
	 Provide peer-based suggestions by analyzed 	zing common user interests.		
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