

REFERENCES

- [1] A. Bhajantri *et al.*, “Personalized Book Recommendations: A Hybrid Approach Leveraging Collaborative Filtering, Association Rule Mining, and Content-Based Filtering,” *EAI Endorsed Trans. Internet Things*, vol. 10, pp. 1–6, 2024, doi: 10.4108/eetiot.6996.
- [2] L. U. S. L. Perera, H. M. S. Chathuranga, and T. Thilakarathna, “Personalized Book Recommendation Engine with Emotional Understanding and Contextual Relevance Based on Hybrid Filtering - A Novel Method Providing Recommendation Explanation,” *CSECS 2025 - Proc. 2025 7th Int. Conf. Softw. Eng. Comput. Sci.*, pp. 1–6, 2025, doi: 10.1109/CSECS64665.2025.11009793.
- [3] M. Ahmad, M. Imran, M. Iqbal, and A. M. Khan, “Digital Information Overload and Its Impact on Library Users: Assessing User Experience and Service Adaptations in Female Higher Education Students,” *Res. J. Soc. Aff.*, vol. 3, no. 2, pp. 89–96, 2025, doi: 10.71317/rjsa.003.02.0098.
- [4] A. Duhan and N. Arunachalam, “Book Recommendation System using Machine Learning,” *AIP Conf. Proc.*, vol. 3075, no. 1, 2024, doi: 10.1063/5.0217051.
- [5] M. Preminger and A. Anker, “Reranking Hits in Public Library Catalog Search with Popularity and Freshness Boosting Reranking Hits in Public Library Catalog Search with Popularity and Freshness Boosting,” *Cat. Classif. Q.*, vol. 0, no. 0, pp. 1–17, 2025, doi: 10.1080/01639374.2025.2562079.
- [6] Y. Kwon and G. Bak, “A Hybrid Recommendation System Based on Similar-Price Content in a Large-Scale E-Commerce Environment,” pp. 1–30, 2025.
- [7] K. Nivetha, S. Karthik, V. Yogieswaran, and M. Indumathy, *IntelliRec : Frequently Asked Questions Hybrid Recommendation System For Personalized Placement Preparation*, no. Icisd 2025. Atlantis Press International BV. doi: 10.2991/978-94-6463-866-0.
- [8] L. Marconi, R. A. A. Matamoros, and F. Epifania, “Discovering the Unknown Suggestion: a Short Review on Explainability for Recommender Systems,” *CEUR Workshop Proc.*, vol. 3463, 2022.
- [9] “Challenges_and_Future_Perspectives_in_Explainable_AI_A_Roadmap_for

_New_Scholars.pdf.”

- [10] A. Anand, L. Lyu, M. Idahl, Y. Wang, J. Wallat, and Z. Zhang, “Explainable Information Retrieval : A Survey,” vol. 1, no. 1.
- [11] H. M. S. Quadir *et al.*, “The Role of XAI in User-Centric Recommender Systems Using Collaborative and Content-Based Approaches,” *2024 27th Int. Conf. Comput. Inf. Technol.*, no. December, pp. 3016–3021, 2024, doi: 10.1109/ICCIT64611.2024.11022562.
- [12] A. M. Salih *et al.*, “A Perspective on Explainable Artificial Intelligence Methods: SHAP and LIME,” *Adv. Intell. Syst.*, vol. 7, no. 1, 2025, doi: 10.1002/aisy.202400304.
- [13] N. Ahmed and A. Alpkoçak, “A quantitative evaluation of explainable AI methods using the depth of decision tree,” *Turkish J. Electr. Eng. Comput. Sci.*, vol. 30, no. 6, pp. 2054–2072, 2022, doi: 10.55730/1300-0632.3924.
- [14] F. H. Yagin, C. Colak, A. Algarni, A. Algarni, F. Al-hashem, and L. Paolo, “Explainable Boosting Machines Identify Key Metabolomic Biomarkers in Rheumatoid Arthritis,” 2025.
- [15] I. Liyanage, “Pushing the Boundaries of Interpretability : Incremental Enhancements to the Explainable Boosting Machine”.
- [16] C. Rudin, “Stop explaining black box machine learning models for high stakes decisions and use interpretable models instead,” *Nat. Mach. Intell.*, vol. 1, no. May, 2019, doi: 10.1038/s42256-019-0048-x.
- [17] M. Pawlicki, A. Pawlicka, F. Uccello, and S. Szelest, “Neurocomputing Evaluating the necessity of the multiple metrics for assessing explainable AI : A critical examination,” *Neurocomputing*, vol. 602, no. June, p. 128282, 2024, doi: 10.1016/j.neucom.2024.128282.
- [18] S. Jenkins and R. Caruana, “InterpretML : A Unified Framework for Machine Learning,” pp. 1–8.
- [19] A. E. Maxwell, M. Sharma, and K. A. Donaldson, “Explainable Boosting Machines for Slope Failure Spatial Predictive Modeling,” no. M1, 2026.
- [20] R. Data, “Explainable Boosting Machine : A Contemporary Glass-Box Strategy for the Assessment of Wind Shear Severity in the Runway Vicinity Based on the Doppler Light Detection and Ranging Data,” 2024.
- [21] S. Schwartz, Q. Wang, and F. Fang, “Enhancing ML Interpretability for Credit

Scoring”.

- [22] T. Hoang and A. Tran, “Final Project Explainable Artificial Intelligence in Job Recommendation Systems,” 2023.
- [23] M. Jacobsen, “Zeitschrift für digitale Geisteswissenschaften,” 2025, doi: 10.17175/sb006.
- [24] N. Rachdi and Q. Guibert, “Explainable Boosting Machine for Predicting Claim Severity and Frequency in Car Insurance,” pp. 1–37, 2025.
- [25] S. Kruschel, N. Hambauer, S. Weinzierl, S. Zilker, M. Kraus, and P. Zschech, “Challenging the Performance-Interpretability Trade-off: An Evaluation of Interpretable Machine Learning Models”.
- [26] H. Zhuang *et al.*, “Interpretable Ranking with Generalized Additive Models”.
- [27] B. M. Greenwell, “Explainable Boosting Machines in R with the ebm Package,” vol. XX, no. 2, pp. 1–23, 1990.
- [28] K. Farivar, “Semantic Search for Information Retrieval,” no. 2020, 2021.
- [29] J. Lu, K. Hall, J. Ma, and J. Ni, “HYRR : Hybrid Infused Reranking for Passage Retrieval,” pp. 8528–8534, 2024.
- [30] J. Keller and L. P. M. Munz, “TEKMA at CLEF-2021 : BM25 based rankings for scientific publication retrieval and data set recommendation,” 2021.
- [31] W. Liu, Y. Xi, J. Qin, F. Sun, B. Chen, and W. Zhang, “Neural Re-ranking in Multi-stage Recommender Systems : A Review,” pp. 5512–5520, 2019.
- [32] C. Samarinas, *Distillation and Refinement of Reasoning in Small Language Models for Document Re-ranking*, vol. 1, no. 1. arXiv, 2025. doi: 10.1145/3731120.3744613.
- [33] S. A. Pratama, “Pengembangan Sistem Rekomendasi Buku Menggunakan Collaborative Filtering,” *J. Komput.*, vol. 2, no. 2, pp. 81–86, 2024, doi: 10.70963/jk.v2i2.112.
- [34] F. Chen, J. Zou, L. Zhou, Z. Xu, and Z. Wu, “Improvements on Recommender System Based on Mathematical Principles,” vol. 10, pp. 1–9, 2023, doi: 10.4236/oalib.1110281.
- [35] T. Fujimoto, “A Book Recommendation System Considering Contents and Emotions of User Interests,” *2022 12th Int. Congr. Adv. Appl. Informatics*, pp. 154–157, 2022, doi: 10.1109/IIAIAAI55812.2022.00039.
- [36] L. M. De Campos and J. M. F. Juan, “An explainable content-based approach

- for recommender systems : a case study in journal recommendation for paper submission,” *User Model. User-adapt. Interact.*, vol. 34, no. 4, pp. 1431–1465, 2024, doi: 10.1007/s11257-024-09400-6.
- [37] M. Fadhel, D. H. Manjaiah, M. Kazim, W. A. Ali, A. M. Shetty, and S. Qaid, “Neurocomputing A collaborative filtering recommender systems : Survey,” *Neurocomputing*, vol. 617, no. September 2024, p. 128718, 2025, doi: 10.1016/j.neucom.2024.128718.
 - [38] D. Roy and M. Dutta, “A systematic review and research perspective on recommender systems,” *J. Big Data*, 2022, doi: 10.1186/s40537-022-00592-5.
 - [39] O. Remadnia, F. Maazouzi, and D. Chefrou, “Hybrid Book Recommendation System Using Collaborative Filtering and Embedding Based Deep Learning,” *Inform.*, vol. 49, no. 8, pp. 189–204, 2025, doi: 10.31449/inf.v49i8.6950.
 - [40] C. Science, “Textual User Profiles for Search-based Recommendation,” 2025.
 - [41] G. H. Torbati, A. Tigunova, and G. Weikum, “SIRUP : Search-based Book Recommendation Playground,” pp. 1062–1065, 2024, doi: 10.1145/3616855.3635692.
 - [42] Z. Wang and Y. Wang, “Digital Library Book Recommendation System Based on Tag Mining,” vol. 1, no. 1, pp. 10–16, 2024.
 - [43] C. N. Asogwa, F. S. Bakpo, C. Emmanuel, and H. C. Ugwuishiwu, “A Recommender Search Engine for Improved Retrieval of Books in a Digital Library Using User ‘ s Preferences,” vol. 6, no. 01, pp. 463–475, 2024, doi: 10.35629/5252-0601463475.
 - [44] I. Needs *et al.*, *The Probabilistic Relevance Framework : BM25 and Beyond By Stephen Robertson and Hugo Zaragoza*, vol. 3, no. 4. 2009. doi: 10.1561/15000000019.
 - [45] A. Saldanha and H. Han, “A SURVEY OF EXPLAINABLE RECOMMENDER SYSTEMS,” pp. 159–171, 2024, doi: 10.5121/csit.2024.142512.
 - [46] I. Al-hazwani, “International Journal of Human - Computer Studies f-RecX : A framework for designing effective textual explanations in recommender systems ‘ user interfaces \$,” vol. 205, no. July, 2025.
 - [47] Z. Zhang, L. Chen, T. Jiang, Y. Li, and L. Li, “Effects of Feature-Based Explanation and Its Output Modality on User Satisfaction With Service

- Recommender Systems,” vol. 5, no. May, pp. 1–17, 2022, doi: 10.3389/fdata.2022.897381.
- [48] M. Radensky, D. Downey, K. Lo, Z. Popovic, and D. S. Weld, *Exploring the Role of Local and Global Explanations in Recommender Systems*, vol. 1, no. 1. Association for Computing Machinery, 2022. doi: 10.1145/3491101.3519795.
 - [49] S. Dasgupta, N. Frost, and M. Moshkovitz, “Framework for Evaluating Faithfulness of Local Explanations,” 2022.
 - [50] A. Jacovi, “Aligning Faithful Interpretations with their Social Attribution,” vol. 9, pp. 294–310, 2021.
 - [51] X. Chen, Y. Zhang, and J. Wen, “Measuring ‘ Why ‘ in Recommender Systems : a Comprehensive Survey on the Evaluation of Explainable Recommendation”.
 - [52] Y. Li, K. Liu, R. Satapathy, and S. Wang, “Recent Developments in Recommender Systems : A Survey,” vol. 14, no. 8, pp. 1–21, 2021.
 - [53] A. Akhadam, O. Kbibchi, L. Mekouar, and Y. Iraqi, “A Comparative Evaluation of Recommender Systems Tools,” *IEEE Access*, vol. 13, no. December 2024, pp. 29493–29522, 2025, doi: 10.1109/ACCESS.2025.3541014.