Dr. Rahul Shrivastava

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https://scholar.google.com/citations?user=c07hK2UAAAAJ&hl=en

Academic Qualification

- **Ph.D. (CSE)** National Institute of Technology (NIT), Raipur, Chhattisgarh
- **M. Tech. (CSE)** Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV) Bhopal, Madhya Pradesh.
- **B.Tech. (CSE)** Chhattisgarh Swami Vivekanand Technical University, (CSVTU), Bhilai,

Professional Experience

- **Assistant Professor (Grade-II Level-10), Department of Artificial Intelligence Sardar Vallabhbhai National Institute of Technology (SVNIT) Surat, (March-25 to Present)**
- **Assistant Professor,** School of Computer Science and Engineering (SCOPE), Vellore Institute of Technology (VIT), Vellore, (March-24 to March-25).
- **Assistant Professor,** School of Computing, Amrita Vishwa Vidyapeetham, Coimbatore, (August-24 to February 25).
- **Temporary Faculty**, National Institute of Technology, Raipur, Chhattisgarh, (July 2017 – June 2018).

Research Interest

- **Recommender Systems** with a focus on **multi-stakeholder, multi-criteria, and multi-objective** recommendation using Machine Learning, Deep Learning, and Soft Computing techniques to enhance personalized, adaptive, and equitable recommendations.

Publications: International Journals (SCI-Indexed)

- Shrivastava, R., Sisodia, D. S., & Nagwani, N. K. (2025). Preference-based crossover technique for optimizing conflicting objectives in multi-stakeholders recommendation systems. *Information Sciences*, 700, 121820. https://doi.org/https://doi.org/10.1016/j.ins.2024.121820 **(SCI) (Cite Score: 14.0)**
- Shrivastava, R., Sisodia, D. S., & Nagwani, N. K. (2024). Multi-stakeholder recommendation system through deep learning-based preference evaluation and aggregation model with multi-view information embedding. *Information Processing & Management*, 61(6), 103862. https://doi.org/10.1016/j.ipm.2024.103862. **(SCI) (Impact Factor: 7.4)**
- R. Shrivastava, D. Singh Sisodia, N. Kumar Nagwani, "Deep neural network-based multi-stakeholder recommendation system exploiting multi-criteria ratings for preference learning," **Expert Systems with Application** 213 (2023) 119071. https://doi.org/10.1016/j.eswa.2022.119071. **(SCI) (Impact Factor: 7.5)**
- R. Shrivastava, D.S. Sisodia, N.K. Nagwani, U.R. BP, An optimized recommendation framework exploiting textual review based opinion mining for generating pleasantly surprising, novel yet relevant recommendations, **Pattern Recognition Letters** 159 (2022) 91–99. https://doi.org/10.1016/j.patrec.2022.05.003. **(SCI) (Impact Factor: 3.9)**
- Shrivastava, R., Sisodia, D.S. & Nagwani, N.K. Deep ensembled multi-criteria recommendation system for enhancing and personalizing the user experience on e-commerce platforms. Knowledge and Information Syst (2024). https://doi.org/10.1007/s10115-024-02187-3 **(SCI) (Impact Factor: 2.5)**
- Shrivastava, R., Sisodia, D. S., & Nagwani, N. K. (2024). Multi-stakeholder recommendations system with deep learning-based diversity personalization and multi-objective optimization for establishing trade-off among competing preferences. *Kybernetes*. https://doi.org/10.1108/K-02-2024-0344 **(SCI) (Impact Factor: 2.5)**
- R. Shrivastava, D.S. Sisodia, N.K. Nagwani, Utility optimization-based multi-stakeholder personalized recommendation system, **Data Technologies and Applications** (2022). https://doi.org/10.1108/DTA-07-2021-0182 . **(SCI) (Impact Factor: 1.8)**

Publications: International Conferences (SCOPUS-Indexed)

- Shrivastava, R., Sisodia, D.S., Nagwani, N.K. On Diverse and Serendipitous Item Recommendation: A Reinforced Similarity and Multi-objective Optimization-Based Composite Recommendation Framework *Lecture Notes in Electrical Engineering*, https://doi.org/10.1007/978-981-99-0085-5_1 2023, 997 LNEE, pp. 1–13
- Shrivastava, R., Sisodia, D.S., Nagwani, N.K. (2022). Fair Exposure: A Multi-stakeholder Personalized Recommendation System Based on Multi-objective Optimization. In: Garg, L., et al. Information Systems and Management Science. ISMS 2020. Lecture Notes in Networks and Systems, vol 303. Springer, Cham. https://doi.org/10.1007/978-3-030-86223-7_18
- R. Shrivastava and D. S. Sisodia, "Product Recommendations Using Textual Similarity Based Learning Models," 2019 International Conference on Computer Communication and Informatics (ICCCI), Coimbatore, India, 2019, pp. 1-7, doi: 10.1109/ICCCI.2019.8821893.
- Kumar, P.S.V.T., Sisodia, D.S., Shrivastava, R. (2024). A Deep Learning-Based Sentiment Classification Approach for Detecting Suicidal Ideation on Social Media Posts. In: Singh, B.K., Sinha, G., Pandey, R. (eds) Biomedical Engineering Science and Technology. ICBEST 2023. Communications in Computer and Information Science, vol 2003. Springer, Cham. https://doi.org/10.1007/978-3-031-54547-4_21
- Mishra, N., Chaturvedi, S., Mishra, V., Srivastava, R., Bargah, P. (2017). Solving Sparsity Problem in Rating-Based Movie Recommendation System. In: Behera, H., Mohapatra, D. (eds) Computational Intelligence in Data Mining. Advances in Intelligent Systems and Computing, vol 556. Springer, Singapore. https://doi.org/10.1007/978-981-10-3874-7_11

Technical Skills

- **Domain Expertise:** Recommender System (MSRS, MCRS and MORS) using Machine Learning, Deep Learning and Evolutionary Optimization Techniques.
- **Programming/Frameworks/ Packages:** C/C++, Python, JAVA/ Pytorch, Tensorflow, Keras/ Python Multi-Objective Optimization (PyMOO)

Technical Skills

- **Nodal Officer** from the Department of AI, SVNIT, Surat for "The Indian Science, Technology and Engineering facilities Map **(I-STEM)".**
- **Program Coordinator-** AICTE-QIP-PG Certificate Programme**,** from the Department of AI, SVNIT, Surat.

Technical Program Committee Member in Conferences

- 13th IEEE International Conference on Intelligent Systems and Embedded Design (ISED-2025)
- 4th International Conference on Machine Intelligence and Signal Processing (MISP-2022) | March 12th-14th, 2022, National Institute of Technology Raipur, India.
- 4th International Conference on Information Systems and Management Science (ISMS-2021), December 14th-15th, 2022, University of Malta, Msida, Malta.
- 4th International Conference on Information Systems and Management Science (ISMS-2021), December 14th-15th, 2021, University of Malta, Msida, Malta.
- ATCON-1-ICAIA-2023: Alliance Technology Conference-1 International Conference on Artificial Intelligence and Application -2023 Alliance University Central Campus Bengaluru, India, April 21-22, 2023.

Courses Facilitated:

- Design and Analysis of Algorithm.
- Advanced Algorithm.
- Operating Systems.
- Machine Learning.
- Theory of Computations.
- Computer Organization and Architecture.

Key Accomplishments:

- Qualified GATE (CSIT)-2018 (92 Percentile).
- Qualified State Eligibility Test (SET) -2019 Computer Science and Application (Validity of the Score Card is Forever).
- Best Paper Award in 4th International Conference on Machine Intelligence and Signal Processing (MISP2022).

Guest Editor/Reviewer

- Guest Editor for the Special Issue on "New Challenges in AI Security" of MDPI electronics.
- Information Processing and Management (Elsevier).
- Kybernetes. (Emerald)
- Heliyon. (Elsevier)