

## Dr. Mansi Agnihotri

- Profile Description: **Dr. Mansi Agnihotri** is a Ph.D. graduate from USICT, GGSIPU (March 2024), specializing in software quality and refactoring. A UGC NET-JRF qualifier, she has 4 years of research and teaching experience as a Research Scholar and is currently an Assistant Professor at BVIMR (since September 2025). She has **6 publications** in SCIE, ESCI, and Scopus-indexed journals, has presented at international conferences, and has contributed to academia through FDP organization at GGSIPU.
- Designation: Assistant Professor
- Education
  - **Ph.D. in Computer Applications** — University School of Information, Communication and Technology (USICT), GGSIPU, *March 2024*
  - **Master of Computer Applications (MCA)** — JIMS (Jagannath International Management School)
  - **Bachelor of Computer Applications (BCA)** — Bharati Vidyapeeth Institute of Management and Research (BVIMR)
- Experience: September 2025- Present
- Research: Software Quality and Maintainability, Refactoring and Code Smell Analysis, Object-Oriented Software Metrics, Empirical Software Engineering, Machine Learning for Software Quality Prediction, Software Evolution and Maintenance
- Conferences
  1. **Mansi Agnihotri** and Anuradha Chug (2021), ‘Analyzing the relationship between Software Metrics and Bad Smells using Critical Metric Value (CMV)’, published in *Proceedings of Thirteenth International Conference on Contemporary Computing (IC3-2021)*, Noida, India. Doi: <https://doi.org/10.1145/3474124.3474193> (ACM, Published, November 2021)
  2. **Mansi Agnihotri** and Anuradha Chug (2022), ‘Understanding Refactoring Tactics and their Effect on Software Quality’, published in *Confluence-2022: 12th International Conference on Cloud Computing, Data Science & Engineering*, Noida, India. Doi: [10.1109/Confluence52989.2022.9734141](https://doi.org/10.1109/Confluence52989.2022.9734141) (Scopus Indexed, IEEE, Published, January 2022)
- Projects/ Achievements
  - Received **Outstanding Paper Award** for a survey paper at JIPS (Journal of Information Processing Systems).

- Qualified **UGC NET with JRF (Junior Research Fellowship)** in Computer Applications.
- Publications
  1. **Mansi Agnihotri** and Anuradha Chug, “Severity Factor (SF): An aid to developers for application of refactoring operations to improve software quality,” *Journal of Software: Evolution and Process*, p. e2590. Doi: <https://doi.org/10.1002/sm.2590> (SCIE indexed, Published) (IF= 1.9)
  2. **Mansi Agnihotri and** Anuradha Chug, ‘Understanding the Effect of Batch Refactoring on Software Quality,’ *International Journal of System Assurance Engineering and Management* Doi: <https://doi.org/10.1007/s13198-023-02247-x> (ESCI and Scopus Indexed, Published) (IF= 2.00)
  3. **Mansi Agnihotri** and Anuradha Chug (2020), ‘Application of machine learning algorithms for code smell prediction using object-oriented software metrics’, *Journal of Statistics and Management Systems*, 23(7), pp. 1159–1171, July 2020 Doi: <https://doi.org/10.1080/09720510.2020.1799576> (ESCI indexed, Published)
  4. **Mansi Agnihotri** and Anuradha Chug (2020), ‘A systematic literature survey of software metrics, code smells and refactoring techniques’, *Journal of Information Processing Systems.*, 16(4), pp. 915–934, August 2020. Doi: [10.3745/JIPS.04.0184](https://doi.org/10.3745/JIPS.04.0184) (ESCI and Scopus Indexed, Published) (Outstanding Survey Paper Award)
- LinkedIn Link: <https://www.linkedin.com/in/mansi-agnihotri-470605155/>
- Email ID: [mansi.agnihotri@bharatividyapeeth.edu](mailto:mansi.agnihotri@bharatividyapeeth.edu) , [magnihotri93@gmail.com](mailto:magnihotri93@gmail.com)