



Shaheed Rajguru College of Applied Sciences for Women
University of Delhi
Faculty Profile

Name	Dr Urmil Bharti	
Designation	Assistant Professor	
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Degree	Institution	Year
Ph.D. (Computer Science)	University of Delhi, Delhi	2024
M. Phil (Computer Science)	Madurai Kamaraj University, Madurai	2008
M.Sc. (Computer Science)	Devi Ahilya Vishwavidyalaya (DAVV), Indore	1997
B.Sc. (Computer Science)	University of Delhi, Delhi	1994
Areas of Interest / Specialization		
Cloud Computing, AI, Machine Learning, Deep Learning, Software Testing, Microservices		
Publications Profile		
<u><i>Journal Publications</i></u>		
1. Bajaj, D., Bharti, U., Gupta, I., Gupta, P., & Yadav, A. (2024). GTMicro—Microservice identification approach based on deep NLP transformer model for greenfield developments. <i>International Journal of Information Technology</i>, 16(5), 2751-2761. SCOPUS Indexed. 2. Bharti, U., Goel, A., & Gupta, S. C. (2023). ReactiveFnJ: A choreographed model for fork-join workflow in serverless computing. <i>Journal of Cloud Computing</i>, 12(1), 63. SCIE Indexed. Impact Factor 4.4. 3. Bajaj, D., Bharti, U., Goel, A., & Gupta, S. C. (2021). A prescriptive model for migration to microservices based on SDLC artifacts. <i>Journal of Web Engineering</i>, 20(3), 817-852. SCIE Indexed. Impact Factor 0.617. 4. Bharti, U., Bajaj, D., Goel, A., & Gupta, S. C. (2019). Identifying requirements for Big Data analytics and mapping to Hadoop tools. <i>International Journal of Recent Technology and Engineering</i>, 8(3), 4384-4392. SCOPUS Indexed. 5. Batra, H., Palawat, G. K., Gupta, K., Priadarshana, Supragya, Bajaj, D., & Bharti, U. (2022).		

CovFakeBot: a machine learning based chatbot using ensemble learning technique for COVID-19 fake news detection. *International Journal of Artificial Intelligence and Soft Computing*, 7(3), 228-241. **DBLP Indexed.**

6. Bajaj, D., Bharti, U., Goel, A., & Gupta, S. C. (2020). PaaS providers and their offerings. *International Journal of Scientific & Technology Research*, 9(2), 4009-4015. **Peer Reviewed.**

Conference Publications

1. Bajaj, D., Bharti, U., Batra, H., Gupta, E., Arupriya, Singh, S., & Negi, T. (2022, December). TiGen–Title Generator Based on Deep NLP Transformer Model for Scholarly Literature. In *International Conference on Communication, Networks and Computing* (pp. 297-309). Cham: Springer Nature Switzerland. **SCOPUS Indexed.**
2. Bharti, U., Goel, A., & Gupta, S. C. (2022, October). A Scalable Design Approach for State Propagation in Serverless Workflow. In *2022 IEEE 3rd Global Conference for Advancement in Technology (GCAT)* (pp. 1-7). IEEE. **SCOPUS Indexed.**
3. Bharti, U., Bajaj, D., Goel, A., & Gupta, S. C. (2021). A novel design approach exploiting data parallelism in serverless infrastructure. In *Advances in Computing and Network Communications: Proceedings of CoCoNet 2020, Volume 1* (pp. 247-260). Singapore: Springer Singapore. **SCOPUS Indexed.**
4. Batra, H., Jain, A., Bisht, G., Srivastava, K., Bharadwaj, M., Bajaj, D., & Bharti, U. (2021, September). CoVShorts: news summarization application based on deep NLP transformers for SARS-CoV-2. In *2021 9th International conference on reliability, infocom technologies and optimization (Trends and Future Directions)(ICRITO)* (pp. 1-6). IEEE. **SCOPUS Indexed.**
5. Bajaj, D., Bharti, U., Batra, H., Goel, A., & Gupta, S. C. (2021). Serverless deployment of a voice-bot for visually impaired. In *Applied Soft Computing and Communication Networks: Proceedings of ACN 2020* (pp. 189-206). Singapore: Springer Singapore. **SCOPUS Indexed.**
6. Bajaj, D., Bharti, U., Goel, A., & Gupta, S. C. (2020, December). Setting up Hadoop Environment and Running MapReduce Job for Teaching BDA in Universities–An Experience. In *International Conference on Communication, Networks and Computing* (pp. 57-71). Singapore: Springer Singapore. **SCOPUS Indexed.**
7. Bharti, U., Bajaj, D., Batra, H., Lalit, S., Lalit, S., & Gangwani, A. (2020, June). Medbot: Conversational artificial intelligence powered chatbot for delivering tele-health after covid-19. In *2020 5th international conference on communication and electronics systems (ICCES)* (pp. 870-875). IEEE. **SCOPUS Indexed.**
8. Bajaj, D., Bharti, U., Goel, A., & Gupta, S. C. (2020, May). Partial migration for re-architecting a cloud native monolithic application into microservices and faas. In *International conference on information, communication and computing technology* (pp. 111-124). Singapore: Springer Singapore. **SCOPUS Indexed.**
9. Bharti, U., Bajaj, D., Tulika, Budhiraja, P., Juyal, M., & Baral, S. (2019, July). Android based e-voting mobile app using Google firebase as BaaS. In *International Conference on*

Sustainable Communication Networks and Application (pp. 231-241). Cham: Springer International Publishing. **SCOPUS Indexed.**

10. Bharti, U., Bajaj, D., Goel, A., & Gupta, S. C. (2021, January). Sequential workflow in production serverless faas orchestration platform. In *Proceedings of International Conference on Intelligent Computing, Information and Control Systems: ICICCS 2020* (pp. 681-693). Singapore: Springer Singapore.
11. Gupta, A. P., Yadav, S., & Bharti, U. (2016). A Novel Technique for Query Suggestion in Long Tail Queries. *Advancements in Electronics and Computer Applications*, 29, 4th-5th. ISBN:978-93-5254-496-7. UGC and DeitY sponsored National Conference on "Advancements in Electronics and Computer Applications".
12. Bharti, U. (2015, March) Control Library for Testing Object Oriented Software. In *Proceedings of UGC sponsored National Conference on "Emerging Trends in Computer Science and Information Systems*. ISBN: 978-93-84224-27-1. Organized by Department of Computer Science, Maharaja Agrasen College, University of Delhi.

Books Edited/Authored

1. Edited a titled "MBAFT-6208: Management of Information Systems" for MBA course, Department of Distance and Continuing Education (DDCE), Campus of Open Learning, University of Delhi, ISBN: 978-81-19169-14-6.
2. Authored a book titled "Big Data Analytics – I. A textbook of Big Data Analytics-Volume I for Skill Enhancement Course. As per NEP: UGCF 2022 Syllabi. ISBN-978-93-6095-451-2, Published by: Authorspress, 2024.
3. Authored a book titled "Big Data Analytics – II". A Textbook of Big Data Analytics-Volume II for Skill Enhancement Course. As per NEP: UGCF 2022 Syllabi. ISBN-978-93-6095-426-0, Published by: Authorspress, 2024.
4. Edited a book titled "Document Preparation and Presentation Software", ISBN-978-93-6095-115-3, Published by: Authorspress, 2024.

Awards and Distinctions

