

Dr. Archana Thakur

Professor, School of Computer Science & IT, Devi Ahilya Vishwavidyalaya, Indore.
Home address: T7-204
Treasure Town, Indore, MP,
India.
Email archana227@gmail.com.

About her

Dr. Archana Thakur received M.Tech. and Ph.D. from School of Computer Science & IT, Devi Ahilya University, Indore. She is a permanent faculty at School of Computer Science & IT, Devi Ahilya University, Indore. She has guided many research scholars of M.Tech. and Ph.D. She is involved in coordinating graduate level and postgraduate-level training program in Computer Science for the University. She has published many research papers in various national and international journals & participated in many international conferences. She has published many research papers in Elsevier and Scopus indexed journals. She has also been esteemed reviewer of Elsevier journals. Her research areas include Machine learning, Software Engineering and ERP technologies.

Areas of Interest

- ERP technologies
- Machine Learning
- Software Engineering

Responsibilities

- Reviewer of esteemed international journals like Elsevier Journals
- Member Exam Committee
- Worked as NSS Program Officer of SCSIT from 2015 till date
- Prepared student assignments & tutorials for different subjects
- Ph.D. Guide for research scholars
- Project Guide for M. Tech, MCA, M.Sc. and BCA students
- Facilitated conduction of smooth Comprehensive Viva Voce Examinations
- Paper setter and reviewer in University examinations
- Member Board of Studies 2024 onwards (Faculty of Engineering Sciences, DAVV)
- Project Coordinator of MBA(CM) from 2014 till date
- Class Coordinator of MBA(CM) from 2018 till date

- Acted as Judge in BAAL Vigyan CBSE school project competition
- Reviewer in many international conferences
- Session chair in several International Conferences
- Guest speaker in several International Conferences
- Organized several Technical Workshops and Seminars for the department

- Member Admission Committee
- Has worked as student Counselor for needy students
- Organized blood donation camps
- Organized NSS camps
- Organized education awareness camps
- Worked as induction program coordinator
- Organized health camps in SCSIT
- Organized SAMARPAN every year for inculcating human values in students
- Resource person in many FDPs
- Resource person in Academic Staff College, DAVV.

Award(s) and achievements

Best paper presentation award for Machine learning classification techniques: A comparative study, presented in International Conference on Advances and Development in Engineering and Technology (ICADET) organized by Institute of Research and Development (IRD) India at Malwa Institute of Technology, 8th –9th of February, Indore, 2013. (Paper online in International Journal on Advanced Computer Theory and Engineering).

Strengths

- Great learner
- Positive attitude
- Great zeal to acquire new knowledge
- Event management

Important Research Papers published in National/International Journal & Conferences-

1. Archana Chaudhary, “Aspect Oriented Software Testing: A study” International Conference on Computer Science and Engineering (ICCSE 2012), organized by Institute for Research and Development, 28th –30th of June, Pune, 2012.
2. Archana Chaudhary, “Usability Issues in ERP Systems”, International Conference on Computer Science and Engineering (ICCSE 2012), organized by Institute for Research and Development, 28th – 30th of June, Pune, 2012.
3. Archana Chaudhary, Savita Kolhe, Rajkamal, “Machine learning techniques for Mobile Intelligent Systems: A study” IEEE International conference on Wireless Optical Communications Network (WOCN), organized by IIT Indore, 20th –22nd September, Indore, 2012.



4. Archana Chaudhary, Savita Kolhe, Raj Kamal, "Machine learning classification techniques: A comparative study", International Conference on Advances and Development in Engineering and Technology (ICADET) organized by Institute of Research and Development (IRD) India at Malwa Institute of Technology, 8th –9 th of February, Indore, 2013. (Awarded Best paper presentation) (Also in International Journal on Advanced Computer Theory and Engineering)
5. Archana Chaudhary, Savita Kolhe, Raj Kamal, "Comparative Study of Machine learning techniques using WEKA", IEEE sponsored National Conference on Mechatronics and Computing Technology & Management (RAMCTM –2013) organized by Indore Institute of Science & Technology, IEEE and VIRSA Wave Simtech, 16th June, Indore, 2013.
6. Archana Chaudhary, Savita Kolhe, Raj Kamal, "Performance of Machine learning techniques in teaching learning process", IEEE sponsored National Conference on Innovative Trends in Soft Computing (ITSC – 2013) organized by Oriental University, 25th – 26th of October, Indore, 2013.
7. Archana Chaudhary, Savita Kolhe, Raj Kamal, 2013. Machine learning classification techniques: A comparative study. International Journal on Advanced Computer Theory and Engineering, Volume–2, Issue–4, Page no. 21–25.
8. Archana Chaudhary, Savita Kolhe, Raj Kamal, 2013. Performance Evaluation of feature selection methods for Mobile devices. International Journal of Engineering Research and Applications, Vol. 3, Issue 6, Page no. 587–594.
9. Archana Chaudhary, Savita Kolhe, Raj Kamal, 2013. Machine Learning techniques for Mobile devices: A Review. International Journal of Engineering Research and Applications, Vol. 3, Issue 6, Page no. 913–917.
10. Archana Chaudhary, Savita Kolhe, Raj Kamal, 2013. Performance Examination of Feature Selection methods with Machine learning classifiers on Mobile devices. International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering, Vol. 1, Issue 8, Page no. 354–358.
11. Archana Thakur, Sunita Gaur, 2015. A Comparative Study of E–Learning Technique with Traditional Teaching Techniques. International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering, Vol. 3, Issue 8, Pages – 23–25.
12. Archana Chaudhary, Savita Kolhe, Raj Kamal, 2016. An improved Random Forest Classifier for multi–class classification. Elsevier Journal Information Processing in Agriculture, Volume 3, Issue 4, Pages 215–222.
13. Archana Chaudhary, Savita Kolhe, Raj Kamal, 2016. A hybrid ensemble for classification in multiclass datasets. Elsevier Journal Computers and Electronics in Agriculture, Volume 124 Issue C, Pages 65–72.
14. Archana Thakur, Ramesh Thakur 2018. Machine Learning Algorithms for Intelligent Mobile Systems. International Journal of Computer Sciences and Engineering Vol. 6, Issue 6, Pages – 1257–1261.
15. Archana Thakur, Arvind Upadhyay, Ramesh Thakur, 2018. Modern Approaches to Cloud Scheduling. International Journal of Computer Sciences and Engineering, Vol. 6, Issue. 6, Pages– 1072–1079. 9.



16. Archana Thakur, Aditya Vyas, 2017. Comparison between cohesion and coupling matrices for inheritance and interface. *International Journal of Research Science & Engineering*, Vol. 3, Issue 3, Pages - 135-140.
17. Archana Thakur, 2018. A Comprehensive Review on Data Mining Techniques and Applications. *International Journal of Computer Sciences and Engineering*, Volume-6, Issue-1, PP: 417-420.
18. Archana Thakur, 2018. Performance Assessment of Machine Learning Algorithms with Feature Selection Methods. *International Journal of Computer Sciences and Engineering*, Volume-6, Issue-4, PP: 502-505.
19. Archana Thakur, Rahul Jain, 2019. Comparative Study of Machine Learning Algorithms for Document Classification. *International Journal of Computer Sciences and Engineering* 7(6), Pages- 1189-1191.
20. Archana Thakur, Ramesh Thakur, "Machine Learning Algorithms for Oilseed Disease Diagnosis", *International Conference on Recent Advances in Interdisciplinary Trends in Engineering & Applications*, 2019. Available online at <http://ssrn.com>.
21. Archana Thakur, Rishav Thakur, "Enabling Technologies and Applications of the Internet of Things", *International Conference on Recent Advances in Interdisciplinary Trends in Engineering & Applications*, 2019. Available online at <http://ssrn.com>.
22. Archana Thakur, Ramesh Thakur, Savita Kolhe, Raj Kamal, 2020. A particle swarm optimization based ensemble for vegetable crop disease recognition. *Computers and Electronics in Agriculture* 178, Pages- 1-7.
23. Archana Thakur, 2020. Crop Disease Recognition using Machine Learning Algorithms. *International Journal of Innovative Technology and Exploring Engineering* 9(11), Pages- 64-166.
24. Archana Thakur, 2020. Performance Enhancement Method for Machine Learning Algorithm. *International Journal of Innovative Technology and Exploring Engineering* 9(11), Pages 320-322.
25. Archana Thakur, Arvind Upadhyay, Ramesh Thakur, "Natural phenomena simulating algorithms", In: *2nd International Conference on Data, Engineering and Applications (IDEA 2K20)*, February 27-28, 2020, Organized by RGPV Bhopal, India.
26. Amit Jadiya, Ramesh Thakur, Archana Thakur 2020. Polymorphic SBD preprocessor: A preprocessing approach for social big data. *Indian Journal of Computer Science and Engineering*, Vol. 11, Issue 6, Pages: 953-961.
27. Archana Thakur, 2020. Enabling mobile technology security issues. *Compliance Engineering Journal*, Volume: 11, Issue: 8 PP: 660-664.
28. Archana Thakur, 2020. Performance improvement of machine learning algorithm on mobile devices. *Compliance Engineering Journal*, Volume: 11, Issue: 8, PP: 721-726.
29. Archana Thakur, 2020. Performance improvement method for Nearest Neighbor algorithm. *Compliance Engineering Journal*, Volume: 11, Issue: 9, PP: 483- 488.
30. Archana Chaudhary Thakur, 2020. Performance Enhancement Method for Machine Learning Algorithm. *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, Volume-9 Issue-11, Pages: 320-322.



31. Archana Thakur, 2021. Machine Learning Algorithms for Software Assessment. International Journal on Emerging Technologies, Vol. 12, Issue: 2, Pages: 262–265.
32. Archana Thakur, 2021. Recent Trends in Cloud Computing. Compliance engineering Journal, Vol. 12, Issue 9, pages: 294–297.
33. Archana Thakur, 2022. Internet of Things Applications in Healthcare. Compliance engineering Journal, Vol. 13, Issue 1, pages: 294–297.
34. Archana Thakur, 2022. A systematic review on data mining methods and applications. International Journal of Advanced Research in Computer Science, Vol. 13 Issue 2, Pages: 28–31.
35. Archana Thakur, 2022. Data mining in disease prediction. International Journal of Advanced Research in Computer Science, Volume: 13, Issue: 3, PP: 15–17.
36. Archana Thakur, 2023. Recommendation systems: Techniques, Challenges and Evolution. In: International Conference on Innovation and Challenges in Engineering Sciences (ICICES). Organized by Institute of engineering and Technology, DAVV, Indore, India.
37. Archana Thakur, 2023. Plant leaf disease prediction using RNN Deep Learning Architecture. In: International Conference on Innovation and Challenges in Engineering Sciences (ICICES). Organized by Institute of engineering and Technology, DAVV, Indore, India.
38. Archana Thakur, 2023. Plant leaf disease prediction using RNN Deep Learning Architecture. In: International Conference on Innovation and Challenges in Engineering Sciences (ICICES). Organized by Institute of engineering and Technology, DAVV, Indore, India.
39. Archana Thakur, 2023. A systematic study on Recent Advancements in E-learning. In: 18th International Conference on Transforming Management Practices and Processes for Economic Development and Societal Welfare. Organized by Prestige Institute of Management and Research, Indore, India.
40. Archana Thakur, 2023. A comparative investigation of Machine Learning Algorithms for Disease Diagnosis. In: 18th International Conference on Transforming Management Practices and Processes for Economic Development and Societal Welfare. Organized by Prestige Institute of Management and Research, Indore, India.
41. Archana Thakur, Ankur Ratmele, Ramesh Thakur, 2023. OpExBERT: Opinion EXTRACTION and Classification of Reviews using BERT Model. International Journal of Engineering Trends and Technology, Volume–71 Issue–11.
42. Archana Thakur, 2023. Applications and Challenges of E-Learning Technologies. International Journal of Computer Sciences and Engineering, Vol.11, Issue 3, pp.24–27.
43. Vijay Choudhary, Archana Thakur, 2024. BAT Algorithm-Based Multi-Class Crop Leaf Disease Prediction Bootstrap Model. Proceedings of Engineering and Technology Innovation, vol. 26, 2024, pp. 72–82.
44. Vijay Choudhary, Archana Thakur, 2024. Prediction of Crop Leaf Health by MCCM and Histogram Learning Model using Leaf Region. Advances in Technology Innovation.



45. Ankur Ratmele, Ramesh Thakur, Archana Thakur, 2024. Opinion mining from amazon reviews using dual interactive Wasserstein namib beetle generative adversarial network. *Multimedia Tools and applications*, pp. 1–22.
46. Archana Thakur, 2021. Recent Trends in Cloud Computing. *Compliance engineering Journal*, Vol. 12, Issue 9, pages: 294–297.
47. Vijay Choudhary, Archana Thakur, 2024. Prediction of Crop Leaf Health by MCCM and Histogram Learning Model Using Leaf Region. *Proceedings of Engineering and Technology Innovation*, vol. 27, 2024, pp. 110–121.
48. Swati Chaudhari, Pratyush Shukla, Archana Thakur, 2024. A Comprehensive investigation on the identification of real and encrypted synthetic network attacks using machine learning algorithms. *International journal of P2P network trends and technology*, Vol. 14, Issue 1, pp. 1–9.
49. Ankur Ratmale. Nisha Bhalse, Ramesh Thakur, Archana Thakur, “Collaborative Filtering Based Algorithm of Movie Recommendation System”, *International Conference on Recent Trends in Mathematics, Statistics, and Engineering (ICRTMSE) 2023*, Indore.
50. Vijay Choudhary, Archana Thakur, & Nisha Bhalse, 2025. CNN-based machine learning model for disease prediction in crops. In *2025 International Conference on Computational, Communication and Information Technology (ICCCIT) (pp. 631–636). IEEE*. <https://doi.org/10.1109/ICCCIT62592.2025.10927874>
51. Arvind Upadhyay, Ramesh Thakur & Archana Thakur, 2024. Crow Search Algorithm (CSA) for task-scheduling in cloud computing. *Nanotechnology Perceptions*, 20(514), 1470–1480. <https://doi.org/10.62441/nano-ntp.vi.2965>.
52. Jadiya, A. K., Thakur, R., & Thakur, A. (2025, March 11). Effective machine learning approach to track polarity change in social media data. *Journal of Information Systems Engineering and Management*, 10(18s), 525–535. <https://doi.org/10.52783/jisem.v10i18s.2940>
53. Jadiya, A. K., Thakur, R., & Thakur, A. (2025). Performance comparison of one-hot encoding vs response coding in context of social media text sentiment analysis. In *2025 International Conference on Computational, Communication and Information Technology (ICCCIT) (pp. 183–187). IEEE*. <https://doi.org/10.1109/ICCCIT62592.2025.10928016>

Note: This paper received the Best Paper Award

