**Dr. Abhishek Badholia**

**Faculty Profile Template**

1. **Basic Information**

* **Name**: Dr. Abhishek Badholia
* **Designation**: Associate Professor and Head
* **Department/School**: Department of Data Science
* **Institution Name**: Shri Shankaracharya Institute of Professional Management & Technology, Raipur
* **Email ID**: dr.abhishek@ssipmt.com
* **Contact Number**: 7000827002
* **Photograph**: *(Passport-size, professional)*

A person with a mustache wearing a striped shirt

AI-generated content may be incorrect.

1. **Educational Qualifications**

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| --- | --- | --- | --- |
| **Degree** | **Specialization** | **Institution** | **Year of Completion** |
| UG | B.Sc (Comp Sci.) | Kakatiya University, Telangana | 1998 |
| PG | M. Tech (Comp. Tech)  M.Sc (Comp. Sci.) | NIT, Raipur, CG  Kakatiya University, Telangana | 2009  2001 |
| Ph.D. | PhD. (Comp Sci & Engg.) | Kalinga University, Raipur, CG | 2018 |
| MBA | Marketing & Finance | TGOU, Nagaland | 2012 |

1. **Teaching & Research Experience**

* **Total Teaching Experience**: 22 Years
* **Industry Experience**: 1 Year
* **Research Experience**: 7 Years

1. **Courses Taught**

* Introduction to Machine Learning
* Artificial Intelligence and Expert System
* Natural Language Processing
* Database Management System
* Data Structures
* Parallel Processing and Computing
* Enterprise Resource and Planning
* Programming with C
* Software Engineering and Project Management
* Computer Graphics
* Object Oriented Programming with C++
* Java Programming
* Theory of Computation
* Compiler Design
* Cellular and Mobile Communications
* Digital Image Processing
* Cloud Computing
* Computer Organization and Design
* Operating Systems
* Computer Networks
* Microprocessor and Interfacing
* Digital Electronics and Logic Design
* Management Information System
* Wireless Communications
* Python Programming
* Data Mining and Warehousing
* Unix and Shell Programming
* Advanced Database
* Advanced Computer Architecture

1. **Research Interests / Specialization**

* Wireless Networks, Data Mining, Cloud Computing, WSN, Machine Learning, Digital Image Processing

1. **Publications (Last 5 Years)**

* Journals (APA/IEEE format)
  + G.S. Chhabra, P. William, A. Badholia, et al., “Optimizing Data Traffic: Effective Management of Physical Processes in Networked Information Systems”, J. Nano- Electron. Phys. 16 No 5, 05010 (2024) (2024). doi.org/10.21272/jnep.16(5).05010 (SCOPUS Indexed)
  + Abdul Razzaque, Dr Abhishek Badholia, “PCA based feature extraction and MPSO based feature selection for gene expression microarray medical data classification”, Measurement: Sensors, Volume 31, 2024, 100945, ISSN 2665-9174, doi.org/10.1016/j.measen.2023.100945. (SCOPUS Indexed)
  + Khare, S., and A.. Badholia. “BLA2C2: Design of a Novel Blockchain-Based Light-Weight Authentication & Access Control Layer for Cloud Deployments”. International Journal on Recent and Innovation Trends in Computing and Communication, vol. 11, no. 3, Apr. 2023, pp. 283-94, doi:10.17762/ijritcc.v11i3.6359. (SCOPUS Indexed)
  + Choudhary, A., Badholia, A., Sharma, A. et al. “A dynamic K-means-based clustering algorithm using fuzzy logic for CH selection and data transmission based on machine learning”. Soft Computing (2023). doi.org/10.1007/s00500-023-07964-w (SCIE)
  + P. William, A.B. Pawar, M.A. Jawale, Abhishek Badholia, Vijayant Verma, “Energy efficient framework to implement next generation network protocol using ATM technology”, Measurement: Sensors, Volume 24, 2022, 100477, ISSN 2665-9174, doi.org/10.1016/j.measen.2022.100477 (SCOPUS Indexed)
  + Choubey, S., Barde, S., & Badholia, A. (2022). XHDLNet Classification of Virus-Borne Diseases for Chest X-Ray Images Using a Hybrid Deep Learning Approach. International Journal of Software Innovation (IJSI), 10(1), 1-14. doi.org/10.4018/IJSI.311505 (SCOPUS Indexed)
  + Srishti Choubey, Snehlata Barde, Abhishek Badholia, “Enhancing the prediction efficiency of virus borne diseases using enhanced backpropagation with an artificial neural network”, Measurement: Sensors, 2022. doi.org/10.1016/j.measen.2022.100505. (SCOPUS Indexed)
  + Khare, S., & Badholia, A. (2022). “Analysis of Cloud and Self-Web-Hosting Services Based on Security Parameters”. International Journal of Information System Modeling and Design (IJISMD), 13(6), 1-14. doi.org/10.4018/IJISMD.297629 (ESCI)
  + Anupam Choudhary, Sapna Jain, Abhishek Badholia, Anurag Sharma, Brijesh Patel. “A less computationally complex clustering algorithm based on dynamic K-means for increasing lifetime of wireless sensor networks”, International Journal of Computer Applications in Technology, Vol. 67, No. 1, 2021, pp. 1 – 16. doi.org/10.1504/ijcat.2021.120731 (ESCI)
  + Akansha Sarad, Apurv Verma, Abhishek Badholia, “An Approach providing Congestion Control & Avoidance using Priority based Energy Efficient mechanism for Internet of Things (IoT)”, International Journal of Emerging Technologies(SCOPUS Indexed), Volume 11, Issue 2, February 2020, pg 1013-1025
* Conference Proceedings
  + A. Badholia, T. D. Diwan, P. Narooka, P. B. Khatkale, A. Vishnoi and K. Kaushik, "Sentiment Analysis Using Machine Learning Methods," 2024 International Conference on Intelligent & Innovative Practices in Engineering & Management (IIPEM), Singapore, Singapore, 2024, pp. 1-6, Doi:10.1109/IIPEM62726.2024.10925794. (IEEE Xplore)
  + M. K. Nigam, P. B. Khatkale, T. D. Diwan, S. Roy, A. Badholia and O. Ghige, "Framework for Securing Quality Control Process in Engineering Using IOT based Machine Learning Models," 2024 International Conference on Intelligent & Innovative Practices in Engineering & Management (IIPEM), Singapore, Singapore, 2024, pp. 1-6, doi: 10.1109/IIPEM62726.2024.10925668. (IEEE Xplore)
  + K. T. Suresh Babu, B. Ashok Tingare, V. Khedkar, T. D. Diwan, P. William and A. Badholia, "Deep Learning and its Applications: A Novel Approach to Machine Learning with Encoding Algorithms," 2024 International Conference on Intelligent & Innovative Practices in Engineering & Management (IIPEM), Singapore, Singapore, 2024, pp. 1-6, doi: 10.1109/IIPEM62726.2024.10925693. (IEEE Xplore)
  + T. D. Diwan, L. Kittusamy, L. Narasimhan, O. Ghige, P. William and A. Badholia, "AI Analysis of Edge- Cloud Computing on IOT-based Large Data Storage Systems with Deep Learning," 2024 International Conference on Intelligent & Innovative Practices in Engineering & Management (IIPEM), Singapore, Singapore, 2024, pp. 1-6, doi: 10.1109/IIPEM62726.2024.10925648. (IEEE Xplore)
  + M. V. Rao, S. K. Dubey and A. Badholia, "Pothole Identification and Dimension Approximation with YOLO Darknet CNN," 2022 4th International Conference on Inventive Research in Computing Applications (ICIRCA), 2022, pp. 1207-1213, doi: 10.1109/ICIRCA54612.2022.9985669. (IEEE Explore)
  + A. Dewangan, A. Sharma and A. Badholia, "COVID-19 Tweet Analysis using Deep Convolutional Neural Network (DCNN)-BERT," 2022 4th International Conference on Inventive Research in Computing Applications (ICIRCA), 2022, pp. 1214-1219, doi: 10.1109/ICIRCA54612.2022.9985742. (IEEE Explore)
  + P. K. Uraon, A. Verma and A. Badholia, "Steel Sheet Defect Detection using Feature Pyramid Network and RESNET," 2022 International Conference on Edge Computing and Applications (ICECAA), 2022, pp. 1543-1550, doi: 10.1109/ICECAA55415.2022.9936318 (IEEE Explore)
  + M. K. Tamrakar and A. Badholia, "Scientific Study of Technological Chatbot Adoption in Customer Service," 2022 3rd International Conference on Electronics and Sustainable Communication Systems (ICESC), 2022, pp. 1117-1123, doi: 10.1109/ICESC54411.2022.9885724. (IEEE Explore)
  + A. K. Gulhare, A. Badholia and A. Sharma, "Mean-Shift and Local Outlier Factor-Based Ensemble Machine Learning Approach for Anomaly Detection in IoT Devices," 2022 International Conference on Inventive Computation Technologies (ICICT), 2022, pp. 649-656, doi: 10.1109/ICICT54344.2022.9850880. (IEEE Explore)
  + B. P. Verma, V. Verma and A. Badholia, "Hyper-Tuned Ensemble Machine Learning Model for Credit Card Fraud Detection," 2022 International Conference on Inventive Computation Technologies (ICICT), 2022, pp. 320-327, doi: 10.1109/ICICT54344.2022.9850940. (IEEE Explore)
  + P. Tamrakar and A. Badholia, "Handwritten Signature Verification Technology Using Deep Learning – A Review," 2022 3rd International Conference on Electronics and Sustainable Communication Systems (ICESC), 2022, pp. 813-817, doi: 10.1109/ICESC54411.2022.9885550. ( IEEE Explore)
  + S. Choubey, S. Barde and A. Badholia, "Analysis of Deep Learning Techniques to Investigate and Support Diagnosis of Virus Borne Diseases," 2022 3rd International Conference on Electronics and Sustainable Communication Systems (ICESC), 2022, pp. 921-928, doi: 10.1109/ICESC54411.2022.9885376. (IEEE Explore)
  + P. William, A. Badholia, B. Patel and M. Nigam, “Hybrid Machine Learning Technique for Personality Classification from Online Text Using HEXACO Model”, 2022 International Conference on Sustainable Computing and Data Communication Systems (ICSCDS), 2022, pp. 253 – 259. DOI:10.1109/ICSCDS53736.2022.9760970. (IEEE Explore)
  + P. William and A. Badholia, "Analysis of Personality Traits from Text Based Answers using HEXACO Model," 2021 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES), 2021, pp. 1-10, doi: 10.1109/ICSES52305.2021.9633794. (IEEE Explore)
* Book Chapters / Books Authored
  + “Mathematics Simplified For Class XI”, 978-93-92568-01-5, Aditi Publication, Raipur, CG, 2022
  + “Introduction to DevOps”, 978-93-5451-849-2, Nirali Prakashan, Pune, Maharashtra, 2022
  + “Business Traceability With Existing IIoT Networks via Novel Light Weight Proof-of-Trace (LWPOT) Consensus Blockchain” published in Advancing Social Equity Through Accessible Green Innovation, by IGI Global in February 2025, ISBN13: 9798369394717, ISBN13 Softcover: 9798369394724, EISBN13: 9798369394731, DOI: 10.4018/979-8-3693-9471-7.ch008
  + “Modelling on E-Service Quality and Green Logistics Consumer Satisfaction”, published in Advancing Social Equity Through Accessible Green Innovation, by IGI Global in February 2025, ISBN13: 9798369394717, ISBN13 Softcover: 9798369394724, EISBN13: 9798369394731, DOI: 10.4018/979-8-3693-9471-7.ch028
  + “IMPLEMENTATION OF AN IOT BASED WATER AND DISASTER MANAGEMENT SYSTEM USING HYBRID CLASSIFICATION APPROACH”, published in DEEP LEARNING TECHNOLOGIES FOR THE SUSTAINABLE DEVELOPMENT GOALS” by Springer on February 2023, ISBN – 978-981-19-5723-9, pp 157 – 173, DOI - 10.1007/978-981-19-5723-9\_11, URL Link - https://link.springer.com/chapter/10.1007/978-981-19-5723-9\_11
  + Yuvaraj, S., Badholia, A., William, P., Vengatesan, K., Bibave, R. (2022). Speech Recognition Based Robotic Arm Writing. In: Goyal, V., Gupta, M., Mirjalili, S., Trivedi, A. (eds) Proceedings of International Conference on Communication and Artificial Intelligence. Lecture Notes in Networks and Systems, vol 435. Springer, Singapore. https://doi.org/10.1007/978-981-19-0976-4\_3,

1. **Research Guidance**

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| **Level** | **Awarded** | **Ongoing** |
| Ph.D. | 6 |  |
| PG | 12 |  |

1. **Awards & Recognitions**

* Reviewer for the Journal - Cybernetics and Systems, Publisher: TAYLOR & FRANCIS INC, ISSN / eISSN: 0196-9722 / 1087-6553, Web of Science Core Collection: Science Citation Index Expanded
* Reviewer for the Journal – International Journal of Computing and Digital Systems, Publisher: UNIVERSITY OF BAHRAIN, ISSN / eISSN: 2210142X, SCOPUS Indexed
* Reviewer for the Conference – Emergent Converging Technologies and Biomedical Systems(ETBS 2024), Publisher: “Proceedings with Springer” – “Lecture Notes in Networks and Systems”

1. **Administrative Roles**

* HOD, CSE(Data Science), SSIPMT, Raipur
* Dean, Academics, Anjaneya University, Raipur
* HOD (CSE), MATS University, Raipur
* Examination Superintendent, MATS University, Aarang
* PhD Cell Committee member, MATS University, Aarang
* T&P Committee Chairperson, MATS University, Aarang
* NAAC Criteria Coordinator, RCET, Bhilai
* Associate Coordinator (School of Information Technology), MATS University, Raipur

1. **Professional Memberships**

* Life Member, The Indian Society for Technical Education (ISTE) - Membership Id – LM 133536
* Member, The Institution of Engineers (India) (IEI).Membership Id – M-1705339 .

1. **Web Presence**

* Google Scholar – https://scholar.google.com/citations?hl=en&view\_op=search\_authors&mauthors=Abhishek+Badholia&btnG=
* ORCID - <https://orcid.org/0000-0003-3569-229X>
* SCOPUS - <https://www.scopus.com/authid/detail.uri?authorId=57216751216>
* WOS - <https://www.webofscience.com/wos/author/record/GSJ-2870-2022>
* LinkedIn - [www.linkedin.com/in/dr-abhishek-badholia-51399b21](http://www.linkedin.com/in/dr-abhishek-badholia-51399b21)

Facebook - <https://www.facebook.com/abhishek.badholia/>