



PRIYANKA DESHMUKH

Assistant Professor | PhD Research Scholar

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PROFESSIONAL SUMMARY

Assistant Professor with 12 years of teaching experience in Computer Engineering/Information Technology, with expertise in Machine Learning, Deep Learning, Data Mining and Artificial Intelligence. Currently pursuing a PhD in Computer Engineering with research focused on developing a Smart Medical Decision Support System using Machine Learning.

QUALIFICATION

1. **Pursuing PhD in Computer Engineering**, from **A. C. Patil College of Engineering** (Mumbai University), Kharghar, Navi Mumbai, admission year 2021.
2. **M. E. in Wireless Communication and Computing** from **P. C. E**, Nagpur with aggregate **68.66%**, passing year 2013.
3. **B. E. in Information Technology** from **Y. C. C. E**, Nagpur with aggregate **63.93%**, passing year 2009
4. **Diploma in Computer Technology** from **Priyadarshini Polytechnic College**, Nagpur with aggregate **70.72%**, passing year 2006.

PROFESSIONAL EXPERIENCE

1. Currently working with “**K. J. Somaiya Institute of Technology**”, Sion, Mumbai as Assistant Professor (IT) from Jan 2025 till date.
2. 2 years’ experience with “**K. J. Somaiya Institute of Technology**”, Sion, Mumbai as Assistant Professor(CE) from Jan 2023 to Dec 2024.
3. 1.5 years’ experience with “**Veermata Jijabai Technological Institute**”, Matunga, Mumbai as Assistant Professor (CE & IT) from July 2021 to December 2022.
4. 1 year experience with “**Veermata Jijabai Technological Institute**”, Matunga , Mumbai as Assistant Professor (MCA)from July 2019 to May 2020.
5. 1.5 year experience with “**Shah and Anchor Kutchhi Engineering College**”, Chembur, Mumbai as Assistant Professor (CE) from January 2018 to June 2019.
6. 1.5year experience with “**Padmabhushan Vasantdada Patil Pratishthan’s**” College of Engineering, Sion, Mumbai as Assistant Professor (IT) from February 2016 to May 2017.
7. 8 Months experience with “**Datta Meghe College of Engineering**”, Airoli , Navi Mumbai as Assistant Professor (IT) from August 2015 to January 2016.

8. 1 Year experience with “**Yeshwantrao Chavan College of Engineering**”, Nagpur as a Lecturer (IT) from July 2012 to April 2013.
9. 3 years’ experience with “**Bhauasaheb Mulak Polytechnic**”, Butibori Nagpur from August 2009 to April 2012.

RESEARCH PROFILE

PhD Research Topic:

“A Smart Medical Decision Support System for Disease Detection and Prediction Based on Machine Learning”

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PAPER PUBLICATIONS

1. “**An AI-Driven Multimodal Framework for Language Inclusive STEM Education in Indic Languages**” International Journal of Information Technology, ISSN: 2511-2112, <https://doi.org/10.1007/s41870-025-03009-7>
2. “**Design of an Improved Model for Diabetes Detection Combining Deep DynaQ Learning with Ensemble Classification**”, Advances in Nonlinear Variational Inequalities, ISSN: 1092-910X, Vol 28 No.5s. <https://doi.org/10.52783/anvi.v28.4345>
3. **Design of an Improved Model Integrating Deep Auto encoders, Hierarchical Attention for Advanced Medical Decision Support System. (Presented)** 3rd International Conference on Optimization Techniques in the Field of Engineering (ICOFE)-2024 (Scopus indexing)
4. **An In-Depth Analysis of Machine Learning Models used in Clinical Decision Support System. (Presented)** 2nd International Conference on Advances in Technology and Management ICATM 2024.(Scopus indexing)
5. **FloraMediVision: A Medicinal Plant Leaf Identification System using Computer Vision**, 6th International Conference on Advances in Science and Technology ICAST 2023.DOI:10.1109/ICAST59062.2023.10454947 (Scopus indexing)
6. **Layer 2 Solutions to Improve the Scalability of Blockchain**, 5th International Conference on Advances in Science and Technology ICAST 2022. DOI:10.1109/ICAST55766.2022.10039486(Scopus indexing)
7. **Gesture and Voice based Real Time Control System**, Global Journal of Engineering Science and Researches GJESR-2013. ISSN 2348 – 8034
8. **Mind Driven Vehicle for Disable Person using Intelligent System**, International Journal of Innovative Studies in Sciences and Engineering Technology Volume: 3 Issue: 5 2017. ISSN 2455-4863

PATENTS

“Edge-AI Enabled Multimodal Medical Decision Support System for Disease Detection, Progression Forecasting, and Organ Impact Simulations” (Filed)

SUBJECTS TAUGHT

1. Data Warehousing and Mining
2. System Programming and Compiler Construction
3. Operating System
4. Management Information System

RESPONSIBILITIES HANDLED

1. Department R & D coordinator
2. Time Table incharge
3. Worked as department level exam Co-coordinator.
4. Students and faculty achievement data coordinator
5. Class In charge.
6. Worked in NBA criteria 4.6.

PROJECTS MENTORED

1. Mentored for DLCOA virtual Lab department level project (Deployed on college server).
2. Attendance System at Precise Bio pharma Ltd.
3. Mentored Club Connect institute level project.
4. Mentored In-house projects in VJTI.

ACADEMIC EVENTS, WORKSHOPS & WEBINARS ORGANIZED

1. As part of the ongoing collaborative Research and Development activities with the India Meteorological Department (IMD), the R&D Cell organized a visit to the Meteorological Watch Office at CSMI Airport, Mumbai. Dr. Radhika Kotecha and Ms. Priyanka Deshmukh, along with student were part of the visit and interacted with IMD officials to discuss ongoing projects and future research directions in weather-based applications.
2. As part of the institute's ongoing R&D engagement with the Regional Meteorological Department, India Meteorological Department (IMD) Mumbai, was organized by the R&D Cell. Dr. Radhika Kotecha and Ms. Priyanka Deshmukh, along with students, participated in interactions focused on enhancing collaboration in weather-based research applications.
3. Expert Talk titled "Exploring AI-Based Research in Agriculture" by Keynote Speaker, Mr. Harshal Sonawane for the benefit of students and faculty members.
4. Served as a Faculty Mentor for the bootcamp, contributing to the planning, execution, and mentoring of student teams through multiple focused sessions under the leadership of Dr. Radhika Kotecha, HOD.

WORKSHOP / WEBINAR / STTP / FDP ATTENDED

1. FDP on "Classical ML" jointly organised by Electronics and ICT Academies held from 18 to 29 May, 2026 under the "Scheme of financial assistance for setting up of Electronics and ICT Academies (Phase II)" of the Ministry of Electronics and Information Technology (MeitY), Government of India.
2. FDP on "Emerging Research Trends in Supercomputing, AI, and Data Science" at Amity University Rajasthan from 24/12/2025 to 30/12/2025.

3. FDP for Educators organized by Ramkrishana Mission, Khar, Mumbai, on 20th November 2025.
4. FDP on “Leveraging Artificial Intelligence for Climate and Sustainability” for duration of one week from 3rd Feb, 2025 to 8th Feb, 2025 organized by department of Information Technology K. J. Somaiya Institute of Technology, Mumbai
5. FDP on “**Speech Enabled Automation Technologies**” for duration of one week from 6th Feb, 2023 to 11th Feb, 2023 organized by department of Electronics Engineering, ZHCET, AMU Sponsored by AICTE Training and Learning (ATAL) Academy.
6. STTP on “**Research and Publication Ethics**” for duration of two weeks from 15th November to 30th November 2021 organized by Sardar Patel Institute of Technology, Mumbai.
7. Webinar on “**Machine Learning and Artificial Intelligence**” for duration of one week from 23rd May, 2020 to 27th May, 2020 organized by IEEE Bombay Section.

PERSONAL PROFILE

Sex: Female

Marital Status: Married

Nationality: Indian

Religion: Hindu

Date of Birth: 27/06/88

Language Known: English, Marathi, Hindi(Read, Write, Speak)

DECLARATION

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

SIGNATURE

