

DR. RADHIKA KOTECHA

Professor, Artificial Intelligence & Head, Department of Information Technology

K. J. Somaiya Institute of Technology, Mumbai, India (Autonomous – Affiliated to University of Mumbai)

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CAREER SUMMARY

Dedicated professional, actively engaged in teaching, research, and administration, demonstrating strong leadership and integrity in driving initiatives aligned with organizational vision and contributing to national and global goals.

EDUCATION

- **Ph.D. (Technology & Engineering)**, Nirma University, Ahmedabad, Gujarat, India (2017) [Research Area: Artificial Intelligence]
- **M.Tech. (Information & Communication Technology)**, Nirma University, Ahmedabad, Gujarat, India (2012) (8.17 / 10 CPI)
- **B.E. (Computer Engineering)**, Atmiya Institute of Technology & Science (Saurashtra University), Rajkot, Gujarat, India (2009) (76%)

EMPLOYMENTS (Total Experience: 14.5 Years)

- **Professor, Artificial Intelligence**, K. J. Somaiya Institute of Technology, Mumbai (December 02, 2024 – Present)
- **Professor, Information Technology**, K. J. Somaiya Institute of Technology, Mumbai (July 01, 2021 – December 01, 2024)
- **Associate Professor, Information Technology**, K. J. Somaiya Institute of Technology, Mumbai (June 28, 2018 – June 30, 2021)
- **Assistant Professor, Information Technology**, Thakur College of Engineering & Technology, Mumbai (July 18, 2017 – June 27, 2018)
- **Assistant Professor, Information Technology**, V. V. P. Engineering College, Rajkot (July 02, 2012 – July 17, 2017)
- **Teaching Assistant, Computer Engineering**, Nirma University, Ahmedabad (July 15, 2011 – May 15, 2012)
- **Lecturer, Computer Engineering**, Atmiya Institute of Technology & Science, Rajkot (June 15, 2009 – June 14, 2010)

KEY RESPONSIBILITIES HELD

- **Head, Department of Information Technology**, K. J. Somaiya Institute of Technology, Mumbai (January 2019 – Present)
- **Chairperson, Board of Studies in Information Technology**, K. J. Somaiya Institute of Technology, Mumbai (July 2021 – Present)
- **Member, Board of Studies in Information Technology**, University of Mumbai, Mumbai (November 2023 – Present)
- **Convener, Institution's Innovation Council (IIC)**, K. J. Somaiya Institute of Technology, Mumbai (October 2018 – Present)
- **Nodal Officer, National Institutional Ranking Framework (NIRF) and formerly Atal Ranking of Institutions on Innovation Achievements (ARIIA)**, K. J. Somaiya Institute of Technology, Mumbai (November 2018 – Present)
- **PG Coordinator, Information Technology**, V. V. P. Engineering College, Rajkot (July 2015 – June 2017)

ACHIEVEMENTS

- **National Award for Best Research by Young Teacher** for the Year 2023 by Indian Society for Technical Education (ISTE) during 53rd ISTE Annual Convention.
- **Sevavrati Naari 2025 Award** by Mumbai Journalist Association - Sanj Mahanagri on the occasion of Women's Day 2025.
- **Smt. S. K. Somaiya Award for Promising Faculty - Higher & Technical Education** for the year 2018-19 by Somaiya Vidyavihar.
- **Best Head of Department of the Year 2023-24 Award** by Computer Society of India (CSI) - Mumbai Chapter.
- **Outstanding Teaching Excellence Award** by LinkedIn and ObserveNow during 4th Education Leaders Conclave and Awards 2023.
- **EduTech Leadership Award** during World Education Congress 2022.
- **Innovation Ambassador Recognition** by Ministry of Education's Innovation Cell since the year 2020 to present.
- **Best Social Impact Project of the Year 2018-19 Award** by Computer Society of India (CSI) - Mumbai Chapter.
- **Funding worth INR 50 lakhs** through an **AICTE initiative** for establishing an **industry-sponsored lab** at institute.
- **05 grants totaling INR 10.03 Lakhs** from **AICTE, ISTE, and MoE's Innovation Cell (MIC)** for organizing FDPs, an International Conference, and mentoring 10 HEIs under the IIC Mentor-Mentee Program, respectively.
- **Institution's Innovation Council (IIC)** at K. J. Somaiya Institute of Technology recognized by **Ministry of Education's Innovation Cell** as one of the **Top Rated IICs** at Zonal & National-level for 06 years since establishment (2018-19 to 2023-24) (**leading it as Convener**). The **IIC innovation ecosystem** also awarded **twice** in IIC Poster Competition at IIC Regional Meets (Western Zone) by MIC & AICTE.

ADMINISTRATIVE ACTIVITIES

Major Initiatives / Outcomes at K. J. Somaiya Institute of Technology, Mumbai:

- As the **Head of the Department of Information Technology**:
 - Led **1st cycle of accreditation** for the Information Technology program by **NBA**.
 - Established **Project-based Learning** culture in the department, with total **39 need-based/live projects** developed & deployed in 5 years.

- Actively contributed to the institute's process of obtaining **Autonomous Status**.
- **Increase in intake of UG program** in Information Technology.
- **Research Centre** establishment for **Ph.D. in Information Technology**.
- As the **Chairperson of Board of Studies in Information Technology** led the **design of state-of-the-art curriculum** (Scheme I, II/II B, III) for B.Tech. (Information Technology) program and the **Honors Program** under autonomy, considering emerging technological trends, industry requirements, and with inputs from industry experts, alumni, domain experts.
- As the **Member of Academic Council and NEP 2020 Cell**, coordinated implementation of NEP 2020 at the institute.
- Proposed and implemented **Learning-by-Doing framework** in curriculum at institute-level under autonomy.
- Coordinated introduction of **M.E. (Artificial Intelligence)** program from 2019-20 at institute.
- As the member of the **NAAC Accreditation Committee**, actively contributed to the institute's preparations in developing comprehensive self-study reports, coordinating compliance with accreditation standards, and facilitating continuous improvement initiatives.
- As the **Convener of Institution's Innovation Council (IIC)**, led efforts in promoting innovation development, organizing activities to stimulate innovation and entrepreneurship among faculties and students, and accurate data submission for Annual Ratings.
- As **Nodal Officer of NIRF and ARIIA**, coordinated data compilation and submission process, as well as design of strategic plan for strengthening research ecosystem at the institute.

Contributions at University of Mumbai:

- Contributed to **design of curriculum** for courses offered by university under IT discipline for affiliated engineering colleges.
- **Planning and moderation of examination activities** (panels, results, etc.) for IT programs in affiliated engineering colleges.
- Contributed to **design of curriculum** for IT-related **Open Electives** for Arts, Science, Commerce, and Management streams.

RESEARCH AND INNOVATION ACTIVITIES

Collaborative Research Undertaken:

- **AI-Powered Heatwave Watch System** - <https://kjsit-imd-heatwave.kjsieit.com> - India Meteorological Department (IMD) (2022-23)
 - Launched in April 2023 by IMD for use by citizens across India to pre-empt heat-related health emergencies)
- **Weather-Based Load Forecasting using AI (Short & Long Term)** - IMD & Tata Power (2019 – Present)
 - **Grant of INR 44 Lakh** sanctioned (funding and documentation procedure in process) from the Ministry of Earth Sciences (MoES) for **Major Research Project**. Collaborating organizations: IMD, Tata Power, Maharashtra Load Despatch Centre.
- **Rainfall Nowcasting using Radar Data** - Indian Institute of Tropical Meteorology (IITM) & IMD (2021-23)
- **Weather Data Analytics Dashboard** - India Meteorological Department (2023 – Present)

Consultancy Assignments (Product Development):

- **Weather-Based Short-Term Load Forecasting using AI** - Software Development for Tata Power (2024–25) | **Amount: INR 10.5 Lakhs**
- **Digital Health Card** - <https://healthcard.kjsieit.in/> - Software Development & Maintenance for Schools of Somaiya Trust (2019 – Present)
- **ISTE Membership Portal** - <https://membership.isteonline.in/> - Software Development & Maintenance for Indian Society for Technical Education (ISTE): Launched by the CM of Maharashtra State during 50th ISTE National Annual Convention Awards 2020 (2020 – Present)
- **Event Management System (EMS)** - <https://ems.kjsieit.in/> - Software Development & Maintenance for K. J. Somaiya Institute of Technology (2019 – Present)
- **Examiner Appointment System (EAS)** - <https://eas.kjsit.com/> - Software Development & Maintenance for K. J. Somaiya Institute of Technology (2019 – Present)
- **Human Resource Management System (HRMS)** - Software Development for Indian Society for Technical Education (ISTE) (2021–22)
- **Cattle Management System** - Software Development and Maintenance for Nareshwadi Gaushala (2024 – Present)
- **AI-Driven Predictive Policing for Public Safety** – Software Development for Mumbai Police (2025 – Present)

Bringing R&D to classroom, undergraduate students are involved in these projects, offering them opportunities to participate as Interns.

Publications & IPR:

- **Journals Publications / Book Chapters:** 13 (06 Major Research, 07 Minor Research / As Guide of Undergraduates)
 - **Indexing:** Web of Science: 05 | Scopus: 08 | UGC-Care: 11
 - **Recent Publication:** S. Dandekar, T. Limbashia, O. Parab, R. Kotecha, K. Chakravarty, S. Ukarande, K. Hosalikar, “A Radar Data-Driven AI Approach for Rainfall Nowcasting: Towards Flood Preparedness in Urban Regions”, Journal of the Indian Society of Remote Sensing, vol. 53, no. 2, 2025, Springer. e-ISSN: 0974-3006.
 - **Best Publication So Far:** R. Kotecha, S. Garg, “Preserving Output-Privacy in Data Stream Classification”, Progress in Artificial Intelligence, vol. 6, no. 2, 2017, Springer. e-ISSN: 2192-6360.
- **Books Published:** 02 (Recent: D. Nar, R. Kotecha, *Drone Technology for Beginners: Learn | Build | Fly Drones*, ISBN: 978-81-972221-5-3 (hbk), 978-81-972221-8-4 (pbk), 2024, Drone School India)
- **Publications in Conference Proceedings:** 18 (Minor Research / As Guide of Undergraduates) | **Indexing:** Scopus: 09

- **Copyrights Registered:** 04 - RoC No.: SW-17510/2023, SW-18171/2024, SW-18166/2024, SW-19095/2024)
- **Patents Granted:** 01 - Indian Patent Granted for 20 Years w.e.f. February 2022 (Patent No.: 454102)
- **Citing Statistics:** Citations: 178, h-index: 9, i10-index: 6
- **ORCID:** [0000-0002-8837-196X](https://orcid.org/0000-0002-8837-196X) | **Google Scholar:** [0JhYSckAAAAJ](https://scholar.google.com/citations?user=0JhYSckAAAAJ) | **Scopus ID:** [57225849879](https://orcid.org/57225849879)

Research Guidance, Innovation Mentoring, and Peer Review Contributions:

- **Ph.D. Guidance:** Recognized Ph.D. guide at the University of Mumbai, with 04 candidates currently pursuing.
- **M.E./M.Tech. Guidance:** Guided 07 candidates (and 02 pursuing) at the University of Mumbai and Gujarat Technological University.
- **Doctoral Examination:** Member of Doctoral Progress Committees and Examiner at the University of Mumbai, C. U. Shah University, and Gujarat Technological University.
- **Invited reviewer** for reputed journals from Springer, MDPI, etc., and multiple international conferences, contributing to AI, data science, computing, and engineering domains.
- **Mentored multiple award-winning student innovations** recognized at prestigious platforms, including Smart India Hackathon (twice), Asia's Largest Maker Mela, Maharashtra State Inter-University Research Convention, University of Mumbai Aavishkar Competition, CHIA Inter-Institute Students Innovation Competition, ISTE Student Convention, MIC YUKTI Competition, CSI Student Project Competition, and more need-based solutions for societal problems.

ACADEMIC AND OUTREACH ACTIVITIES

- **Invited Talks / Events as Resource Person:**
 - Mentored 10 institutes to strengthen their innovation ecosystem under MoE-AICTE IIC programs (for 2 years).
 - Conducted Training Programs on Artificial Intelligence to 2000+ Mumbai Police officers in the year 2025.
 - Delivered many expert talks at FDPs, Workshops, and Seminars on AI, innovation, and research methodology.
 - Engaged in panel discussions at professional events.
 - Served as a judge at national and state-level competitions.
 - Chaired sessions in conferences and delivered keynote talks.
 - Member of Selection Committee for the appointment of Professor, Associate Professor, Assistant Professor, and supporting staff in Institutes affiliated to University of Mumbai.
- **Faculty Development Programs / Short-Term Training Programs Organized:** 11
- **Student Development Programs Organized:** 14 (and several other Seminars, Webinars, and Workshops on state-of-the-art technologies)
- **Student Competitions Organized:** 22
- **International Conferences Organized:** 02
- **Industry Interaction:** 40+ engagements through MoU / NDA for field visits, internships, co-curricular activities, and collaborative projects.
- **Participation:** Attended various FDPs, Conferences, Workshops, and obtained Certifications from premier institutions including IITs, NITs, IISER, and leading organizations such as AICTE, Intel, IBM, and MoE's Innovation Cell, covering topics in AI, data science, IPR, innovation, leadership, and advanced technologies.
- **Courses Taught at UG Level:** Data Mining and Business Intelligence, Machine Learning and Deep Learning, Data Structures, Artificial Intelligence, Software Engineering, etc.
- **Courses Taught at PG Level:** Artificial Intelligence (Interdisciplinary), Building Blocks of Artificial Intelligence, Bio-Inspired Artificial Intelligence, Soft Computing Methods, Research Methodology, etc.
- Designed a **"Data Structures' Visualization Tool"** for teaching-learning concepts of Data Structures through animations and ICT.
- Designed **"Student Progress Management System"** for monitoring and enhancing holistic development of students using AI and ICT.
- Involved in **exam-related activities** such as the **Chairperson, Departmental Examination & Evaluation Committee**, university examination paper setting, paper assessment, Senior Supervisor, Squad, Exam Chief Conductor, etc.
- Attended **Academic Visits** to institutes to reputed organizations for understanding their best practices in academics and research.
- Visited **20 countries** for cultural, technical, and individual exposure.

PERSONAL INFORMATION

- Date of Birth: July 22, 1988 | Place of Birth: Rajkot, Gujarat | Nationality: Indian | Gender: Female | Marital Status: Married
- Languages Known: English, Hindi, and Gujarati
- Current Address: 502, Nutan Kailash Niwas - 1, R. B. Mehta Road, Ghatkopar (E), Mumbai - 400077, Maharashtra, India
- Permanent Address: 19, Sural Bunglows, Judges Bunglows Road, Ahmedabad - 380054, Gujarat, India

DECLARATION

I hereby declare that all the information furnished above is correct to the best of my knowledge.

Place: Mumbai, Maharashtra

Date: March 21, 2025

DR. RADHIKA KOTECHA