

DR. RADHIKA KOTECHA

Professor and Head – Department of Information Technology
Chairperson – Board of Studies in Information Technology
K. J. Somaiya Institute of Technology, Mumbai, India

Member – Board of Studies in Information Technology
University of Mumbai

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CAREER SUMMARY

As a dedicated young professional, I am actively engaged in teaching, research, and administration. Passionate about education, my teaching initiatives aim at creating a stimulating learning environment and fostering critical thinking among students. Being an enthusiastic researcher, I have been leading the development of technological solutions for societal issues, coupled with the delivery of impactful research. In administrative capacities, I exhibit strong leadership skills and integrity, aligning my initiatives with the organization's vision and mission. I embody a balance of experience and dynamism, with commitment to delivering the best quality work and contributing to the overall growth of my employer organization, as well as national and global goals.

Research Specialization: Artificial Intelligence

EDUCATION

Ph.D. in Technology & Engineering

October 2012 – July 2017

Institute of Technology, Ahmedabad – Nirma University, Gujarat, India

Dissertation: Privacy-Preserving Classification of Horizontally Partitioned Data Streams (Guide: Dr. Sanjay Garg)

M.Tech. in Information & Communication Technology (Computer Science & Engineering)

June 2010 – June 2012

Institute of Technology, Nirma University, Ahmedabad, Gujarat, India

Dissertation: Evolutionary Algorithms for Effective Classification (Guide: Dr. Sanjay Garg & Dr. Vijay Ukani)

Performance: First Class with Distinction (8.17 / 10 CPI)

B.E. in Computer Engineering

July 2005 – June 2009

Atmiya Institute of Technology & Science, Saurashtra University, Rajkot, Gujarat, India

Major Project: Export Oriented Unit Management System

Performance: First Class with Distinction (76%)

EMPLOYMENTS

Professor – Information Technology (through CAS)

July 01, 2021 – present

K. J. Somaiya Institute of Technology, Mumbai – University of Mumbai, Maharashtra, India

Associate Professor – Information Technology

June 28, 2018 – June 30, 2021

K. J. Somaiya Institute of Technology, Mumbai – University of Mumbai, Maharashtra, India

Assistant Professor – Information Technology

June 18, 2017 – June 27, 2018

Thakur College of Engineering and Technology, Mumbai – University of Mumbai, Maharashtra, India

Assistant Professor – Information Technology

July 02, 2012 – July 17, 2017

V. V. P. Engineering College, Rajkot – Gujarat Technological University, Gujarat, India

Teaching Assistant – Computer Engineering (during Masters)

July 15, 2011 – May 15, 2012

Institute of Technology, Ahmedabad – Nirma University, Gujarat, India

Lecturer – Computer Engineering

June 15, 2009 – June 14, 2010

Atmiya Institute of Technology & Science, Rajkot – Saurashtra University, Gujarat, India

KEY RESPONSIBILITIES HELD

Head – Department of Information Technology <i>K. J. Somaiya Institute of Technology, Mumbai, Maharashtra, India</i>	January 2019 – present
Chairperson – Board of Studies in Information Technology <i>K. J. Somaiya Institute of Technology, Mumbai, Maharashtra, India (Autonomous)</i>	July 2021 – present
Member – Board of Studies in Information Technology <i>University of Mumbai, Maharashtra, India</i>	November 2023 – present
Convener – Institution’s Innovation Council (IIC) <i>K. J. Somaiya Institute of Technology, Mumbai, Maharashtra, India</i>	October 2018 – present
Nodal Officer – National Institutional Ranking Framework (NIRF) & Atal Ranking of Institutions on Innovation Achievements (ARIIA) <i>K. J. Somaiya Institute of Technology, Mumbai, Maharashtra, India</i>	November 2018 – present
PG Coordinator – Department of Information Technology <i>V. V. P. Engineering College, Rajkot, Gujarat, India</i>	July 2015 – June 2017
Coordinator – Industry-Institute Interaction <i>V. V. P. Engineering College, Rajkot, Gujarat, India</i>	July 2014 – June 2017

ACHIEVEMENTS

- 1) **Smt. S. K. Somaiya Award for Promising Faculty - Higher & Technical Education** for the year 2018-19 by Somaiya Vidyavihar.
- 2) **Best Social Impact Project** of the Year 2019 Award by Computer Society of India (CSI) - Mumbai Chapter.
- 3) **Outstanding Teaching Excellence Award** by LinkedIn and ObserveNow during 4th Education Leaders Conclave and Awards 2023.
- 4) **EduTech Leadership Award** during World Education Congress 2022.
- 5) **Innovation Ambassador** Recognition by Ministry of Education’s Innovation Cell for the years 2020-21, 2021-22, 2022-23, 2023-present.
- 6) **Felicitation** by the Indian Society for Technical Education (ISTE) in the year 2020 for the development of Membership Portal used PAN India.
- 7) **Recognition** by the India Meteorological Department (IMD) Pune in the year 2023 for development of a collaborative research product, AI-Powered Heatwave Watch System, used PAN India.
- 8) **Grant of INR 2.53 Lakh** from AICTE to organize Short Term Training Programs on “Leveraging AI for Healthcare” for researchers, academicians, and industrialists.
- 9) **Grant of INR 2.25 Lakh** from AICTE and Ministry of Education’s Innovation Cell (MIC) to mentor 05 IIC institutions under the Mentor-Mentee Program 2021-22.
- 10) **Grant of INR 2.25 Lakh** from AICTE and Ministry of Education’s Innovation Cell (MIC) to mentor 05 IIC institutions under the Mentor-Mentee Program 2023-24.
- 11) **Grant of INR 44 Lakh** sanctioned (funding procedure in process) from the Ministry of Earth Sciences (MoES) for the **Major Research Project** “Development of AI Models for Weather-Based Short-Term Electrical Load Demand Forecasting” (Role: Principal Investigator).
- 12) **Convener** of Institution’s Innovation Council (IIC) **recognized by Ministry of Education’s Innovation Cell** as one of **Top Rated IICs** at Zonal and National-level for all 05 years (2018-19 to 2022-23) since establishment.
- 13) **Best IIC Poster Prize** for design and presentation of KJSIT - IIC ecosystem poster in the IIC Poster Competition organized by the Ministry of Education’s Innovation Cell (MIC) and AICTE during the Institution's Innovation Council (IIC) Regional Meet 2024 for Western Zone.

- 14) **Best Paper Award** in ISTE State Faculty Annual Convention 2023 on Technological Innovation for Sustainable Development.
- 15) **Best IIC Poster Prize** for design and presentation of KJSIT - IIC ecosystem poster in the IIC Poster Competition organized by the Ministry of Education's Innovation Cell (MIC) and AICTE during the Institution's Innovation Council (IIC) Regional Meet 2022 for Western Zone.
- 16) **Certificate of Excellence** from IIT Bombay for ranking among **Top 5%** performers from participants all over India for "FDP101x Foundation Program in ICT for Education" & "FDP201x Pedagogy for Online and Blended Teaching-Learning Process" in the year 2017.
- 17) **Topper (1%)** in NPTEL Online Certification course on "Data Mining" organized by IIT Kharagpur in 2019.
- 18) **Mentor of Notable Winning Projects** in Renowned Competitions / Platforms at University, State, and National-level.

RESEARCH AND INNOVATION ACTIVITIES

- **Research Guidance:**

Recognized M.E. / M.Tech. Guide in Information Technology **2020 – present**

University of Mumbai, Maharashtra, India

Candidates Guided: 03 Completed, 03 Pursuing

Recognized M.E. Guide in Information Technology **2015 – 2017**

Gujarat Technological University, Gujarat, India

Candidates Guided: 03 Completed

Recognized Ph.D. Guide in Information Technology **2022 – present**

University of Mumbai, Maharashtra, India

Candidates Guided: 01 Pursuing

**Member, Doctoral Progress Committee & Examiner – Doctoral Thesis in
Computer Engineering / Information Technology** **2018 – present**

Gujarat Technological University, Gujarat, India

Candidates Examined: 01 Completed, 01 Pursuing

Examiner – Doctoral Thesis in Information Technology **2019 – present**

C. U. Shah University, Gujarat

Candidates Examined: 05 Completed

- **Invited Reviewer / Technical Program Committee Member:**

- 1) Arabian Journal for Science and Engineering | **Springer**, Switzerland | **Scopus, SCIE** | 2018 – present
- 2) Expert Systems with Applications | **Elsevier**, Netherlands | **Scopus, SCIE** | 2020 – present
- 3) SN Computer Science | **Springer**, Switzerland | **Scopus, SCIE** | 2021 – present
- 4) Machines | MDPI, Serbia | **Scopus, SCIE** | 2022
- 5) International Journal of Data Science and Analytics | **Springer**, Switzerland | **Scopus, SCIE** | 2023
- 6) ASEAN Engineering Journal | Penerbit UTM Press, Malaysia | **Scopus, SCIE** | 2023 – present
- 7) 3rd International Conference on Intelligent Vision and Computing by National Institute of Technology, Agartala, India | **Springer** | **Scopus** | 2023
- 8) International Conference on Intelligent Computing and Big Data Analytics 2024 by D. Y. Patil Deemed to be University, Navi Mumbai, India | **Springer** | **Scopus** | 2024
- 9) World Conference on Artificial Intelligence: Advances and Applications by Sir Padampat Singhania University, Rajasthan, India | **Springer** | **Scopus** | 2023
- 10) Congress on Control, Robotics, and Mechatronics by Modi Institute of Technology, Kota, India | **Springer** | **Scopus** | 2023

- 11) International Conference on Power Engineering and Intelligent Systems by National Institute of Technology, Delhi, India | **Springer** | **Scopus** | 2023
 - 12) Congress on Smart Computing Technologies by South Asian University, India | **Springer** | **Scopus** | 2023
 - 13) International Conference on Artificial Intelligence: Theory and Applications by ICFAI Business School, Bangalore | **Springer** | **Scopus** | 2023
 - 14) 11th IEEE Humanitarian Technology Conference by IEEE Gujarat Section at Marwadi University, India | **IEEE** | **Scopus** | 2023
 - 15) IEEE Bombay Section Signature Conference by SVKM's NMIMS Mukesh Patel School of Technology Management & Engineering, Mumbai, India | **IEEE** | **Scopus** | 2022
 - 16) IEEE World Conference on Applied Intelligence and Computing by Rajkiya Engineering College, Sonbhadra, India | **IEEE** | **Scopus** | 2022
 - 17) International Conference on Computer Vision and Robotics by BBD University, Lucknow, India | **Springer** | **Scopus** | 2022
 - 18) Conference on Technologies for Future Cities by Pillai College of Engineering (PCE), Navi Mumbai, India | **IEEE** | **Scopus** | 2021
 - 19) International E-Conference on Advances in Information Technology and Research by Vidyalankar Institute of Technology, Mumbai | 2021
 - 20) International Conference on Advanced Computing Technologies and Applications by D. J. Sanghvi College of Engineering, Mumbai, India | **Springer** | **Scopus** | 2020
 - 21) International Conference on Advanced in Science and Technology by K. J. Somaiya Institute of Engineering and Information Technology, Mumbai, India | SSRN-Elsevier | 2020
 - 22) International Conference on Automation, Computing and Communication, Mumbai, India by Ramrao Adik Institute of Technology, Navi Mumbai, India | EDP Sciences - Web of Conferences | 2020
 - 23) International Conference on Advanced in Science and Technology by K. J. Somaiya Institute of Engineering and Information Technology, Mumbai, India | SSRN-Elsevier | 2019
 - 24) International Conference on Communication, Security & Optimization of Decision Support Systems by Thakur College of Engineering and Technology, Mumbai, India | i-manager Publications | 2018 [**Co-convener**]
 - 25) 5th International Conference on Artificial Intelligence and Pattern Recognition by Lodz University of Technology, Poland, Europe | Society of Digital Information and Wireless Communications | 2018
 - 26) International Conference on Control Systems, Computing and Engineering by IEEE Malaysia Section, Penang, Malaysia | **IEEE** | **Scopus** | 2018
- **Consultancy Assignments (Funded):**
 - 1) **Weather-Based Short-Term Load Forecasting using Artificial Intelligence** **May 2023 – April 2025**
Software Development for Tata Power (ongoing – INR 10.5 Lakhs sanctioned in February 2024)
 - **Consultancy Assignments (Non-Funded – for Societal Contribution Only):**
 - 1) **Digital Health Card** - <https://healthcard.kjsieit.in/> **December 2019 – present**
Development and Maintenance of Customized Multi-lingual Web and Mobile Application for Schools of Somaiya Trust (Nareshwadi School, Dahanu, Maharashtra; K. J. Somaiya English Medium School, Sameerwadi, Karnataka; The Somaiya School, Mumbai; and 05 others)
 - 2) **ISTE Membership Portal** - <https://membership.isteonline.in/> **May 2021 – present**
*Software Development & Maintenance for Indian Society for Technical Education (ISTE)
Launched by the Chief Minister of Maharashtra State during 50th ISTE National Annual Convention Awards 2020*
 - 3) **Event Management System (EMS)** - <https://ems.kjsieit.in/> **December 2019 – present**
Software Development & Maintenance for K. J. Somaiya Institute of Technology, Mumbai

- 4) **Examiner Appointment System (EAS)** - <https://eas.kjsit.com/> **June 2021 – present**
Software Development & Maintenance for K. J. Somaiya Institute of Technology, Mumbai
 - 5) **Human Resources Management System (HRMS)** **May 2021 – January 2022**
Software Development for Indian Society for Technical Education (ISTE)
 - 6) **Intelligent Reports in ERP System** **May 2019**
Consulting Service for Ellipsis InfoTech, Ahmedabad, Gujarat
- **Collaborative Research Projects Undertaken (Non-Funded - for Societal Contribution Only):**
 - 1) **Weather-Based Short-Term Load Forecasting using Artificial Intelligence** **December 2019 – January 2023**
Tata Power & India Meteorological Department (IMD), Mumbai – Pune
 - 2) **AI-Powered Heatwave Watch System** - <https://kjsit-imd-heatwave.kjsieit.com> **September 2022 – March 2023**
India Meteorological Department (IMD), Pune
(Launched in April 2023 by IMD for use by citizens PAN India to pre-empt heat-related health emergencies)
 - 3) **Rainfall Nowcasting using Radar Data** **November 2021 – April 2023**
Indian Institute of Tropical Meteorology (IITM), Pune and India Meteorological Department (IMD), Pune
 - 4) **Weather Data Analytics Dashboard** **July 2023 – Ongoing**
India Meteorological Department (IMD), Pune
 - **Need-Based / Live / Winning Student Innovations Guided Recently:**
 - 1) **Train Crowd Management System** **December 2021 – February 2024**
 - *Best Innovation Prize by MIC & AICTE in IIC Regional Meet – Yukti Innovation Contest 2024*
 - *1st Runners up and Prize of INR 50,000 in CIIA Inter-Institution Students Innovation Exhibition & Competition 2023 held at Nehru Science Center, Mumbai*
 - *First Prize - INR 35,000 Scholarship in 15th Maharashtra State Inter-University Research Convention 2023 held at Savitribai Phule Pune University*
 - *Presentation to Hon'ble Governor and Chief Minister of Maharashtra at Raj Bhavan on Republic Day 2023*
 - *1st Prize and Gold Medal in 17th Inter-Collegiate Aavishkar Research Convention 2022 in Commerce, Management, and Law category organized by the University of Mumbai*
 - *National Award for Best B.Tech. Project related to Sustainability in ISTE Annual Student Convention 2022 by Indian Society for Technical Education*
 - 2) **Prediction of Natural Gas Prices using Machine Learning and Data Analytics** **March 2022 – August 2022**
 - *Problem Statement by Gas Authority of India Limited (GAIL), Ministry of Petroleum and Natural Gas*
 - *Awarded 1st Prize - INR 1 Lakh in National-level event Smart India Hackathon 2022 by AICTE*
 - 3) **Predictive Policing for Women Safety Application** **January 2020 – July 2021**
 - *Appreciation Letter from Maharashtra State Police on Submission of Prototype for Analysis and Operations*
 - 4) **Age-Related Macular Degeneration Prediction Application** **January 2020 - May 2021**
 - *Appreciation Letter from Sadhu-Kamal Eye Hospital on Submission of Prototype for Analysis and Operations*
 - 5) **Automated Garbage Profiling** **November 2019 - January 2021**
 - *Maker of the Year Award – INR 75,000 in Asia's Biggest Maker Gathering - Maker Mela 2021 by Riidl*
 - 6) **Unified System for Agricultural Prediction using Artificial Intelligence** **March 2020 - August 2020**
 - *Problem Statement by Cognizant*
 - *Awarded 1st Prize - INR 1 Lakh in National-level event Smart India Hackathon 2020 by AICTE*
 - 7) **Automated Weather Report Generation** **October 2019 - December 2019**
 - *Problem Statement by India Meteorological Department (IMD), Mumbai*
 - *Report used by IMD Scientists for Daily Analysis since 2019*

- **Publications:**

International Journals

- 1) R. Kotecha, S. Ukarande, K. Hosalikar, P. Maniar, S. Maru, D. Pallikuth, T. Biswas, V. Rane, “*Short-Term Load Demand Forecasting based on Weather and Influencing Factors using Deep Neural Network Experts for Sustainable Development Goal 7*”, **SN Computer Science**, vol. 5, no. 2, pp. 253/1-25, Feb. 2024, **Springer**. e-ISSN: 2661-8907.
Indexing: Scopus, UGC-Care, etc. (<https://www.scopus.com/sourceid/21101083109>)
- 2) S. Gopane, R. Kotecha, “*Cheat Detection in Online Examination using Artificial Intelligence*”, **ASEAN Engineering Journal**, vol. 14, no. 1, Feb. 2024, **Penerbit UTM Press, Malaysia**. e-ISSN: 2586- 9159.
Indexing: Scopus, UGC-CARE, etc. (<https://www.scopus.com/sourceid/21100932721>)
- 3) R. Kotecha, “*Demystifying the Role of AIoT for Sustainable WASH Conditions: Analysis and Research Directions*”, **International Journal of Engineering Trends and Technology**, vol. 71, no. 10, pp. 278-287, Oct. 2023, **SSRG**. e-ISSN: 2231-5381.
Indexing: Scopus, UGC-CARE, etc. (<https://www.scopus.com/sourceid/21101000284>)
- 4) D. Nar, R. Kotecha, “*Optimal Waypoint Assignment for Designing Drone Light Show Formations*”, **Results in Control and Optimization**, vol. 9, pp. 100174/1-18, Sept. 2022, **Elsevier**. e-ISSN: 2666-7207.
Indexing: Scopus, UGC-CARE, etc. (<https://www.scopus.com/sourceid/21101060462>)
- 5) R. Pandey, J. Obhan, N. Vadher, R. Kotecha, “*AI-Powered Music Genre Classification for Pertinent Music Therapy in Education*”, **Indian Journal of Technical Education**, vol. 46, no. 3, pp. 1-12, Sept. 2023, **ISTE**. ISSN: 0971-3034.
Indexing: UGC-CARE, etc. (<https://ugccare.unipune.ac.in/Apps1/User/WebA/ViewDetails?JournalId=101051826>)
- 6) R. Pandey, J. Obhan, R. Kotecha, “*Data Mining for Enhancement of Graduate Attributes*”, **ICTACT Journal on Soft Computing**, vol. 13, no. 2, pp. 2863-2871, Jan. 2023, **ICT Academy**. e-ISSN: 2229-6956.
Indexing: UGC-CARE, etc. (<https://ugccare.unipune.ac.in/Apps1/User/WebA/ViewDetails?JournalId=101002669>)
- 7) R. Singh, R. Kotecha, K. Shethia, “*Enhancing Object Mapping in SLAM using CNN*”, **International Journal of Next-Generation Computing**, vol. 14, no. 2, pp. 448-461, March 2023, **Perpetual Innovation**. e-ISSN: 0976-5034.
Indexing: UGC-CARE, etc. (<https://ugccare.unipune.ac.in/Apps1/User/WebA/ViewDetails?JournalId=101000907>)
- 8) A. Patil, D. Shah, A. Shah, R. Kotecha, “*Forecasting Prices of Agricultural Commodities using Machine Learning for Global Food Security: Towards Sustainable Development Goal 2*”, **International Journal of Engineering Trends and Technology**, vol. 71, no. 12, pp. 277-291, Dec. 2023, **SSRG**. e-ISSN: 2231-5381.
Indexing: Scopus, UGC-CARE, etc. (<https://www.scopus.com/sourceid/21101000284>)
- 9) D. Nar, R. Kotecha, “*Enhancement of Drone-as-a-Service using Blockchain and AI*”, **International Journal of Next-Generation Computing**, vol. 13, no. 4, pp. 885-900, Nov. 2022, **Perpetual Innovation**. e-ISSN: 0976-5034.
Indexing: UGC-CARE, etc. (<https://ugccare.unipune.ac.in/Apps1/User/WebA/ViewDetails?JournalId=101000907>)
- 10) R. Pandey, J. Obhan, N. Vadher, R. Kotecha, “*Music Genre Classification using AI on Audio Sources*”, **Indian Journal of Technical Education**, vol. 46, no. 1, pp. 65-77, Sept. 2023, **ISTE**. ISSN: 0971-3034.
Indexing: UGC-CARE, etc. (<https://ugccare.unipune.ac.in/Apps1/User/WebA/ViewDetails?JournalId=101051826>)
- 11) H. Mishra, K. Mishra, J. More, R. Kotecha, “*Decentralized Crowdfunding on Blockchain: A Promising Path to Sustainable Economic Growth*”, **International Journal of Engineering Trends and Technology**, vol. 72, no. 02, pp. 99-106, Feb. 2024, **SSRG**. e-ISSN: 2231-5381.
Indexing: Scopus, UGC-CARE, etc. (<https://www.scopus.com/sourceid/21101000284>)
- 12) R. Kotecha, S. Garg, “*Preserving Output-Privacy in Data Stream Classification*”, **Progress in Artificial Intelligence**, vol. 6, no. 2, pp. 87-104, Jan. 2017, **Springer**. e-ISSN: 2192-6360.
Indexing: Scopus, SCI, UGC-CARE, etc. (<https://www.scopus.com/sourceid/21100781972>)

- 13) R. Kotecha, S. Garg, “*Genetic Programming-based Evolution of Classification Trees for Decision Support in Banking Sector*”, **International Journal of Knowledge Engineering and Soft Data Paradigms**, vol. 5, no. 3/4, pp. 186-204, December 2016, **Inderscience**.
Indexing: ACM DL, DBLP, etc.
- ★ 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**, *In Communication for Minor Revisions*, **Springer**. e-ISSN: 0974-3006.
Indexing: Scopus, UGC-Care, etc. (<https://www.scopus.com/sourceid/26648>)

International Conferences

- 1) S. Karn, R. Kotecha, “*Towards Sustainable Farming: Leveraging AIoT for Precision Water Management and Crop Yield Optimization*”. In: International Conference on Innovative Data Communication Technologies and Applications, Coimbatore, India. *Procedia Computer Science Journal*, Jan. 2024. **Elsevier**. e-ISSN: 1877-0509.
Indexing: Scopus, etc. (<https://www.scopus.com/sourceid/19700182801>)
- 2) K. Majithia, A. Barot, V. Vora, R. Kotecha, P. Hatode, “*Prediction of Age-Related Macular Degeneration (ARMD) using Deep Learning*”. In: International Conference on Innovative Computing and Communications, Delhi, India. Chapter in Book Series: *Lecture Notes in Networks and Systems*, vol. 471, pp. 533-548, Sept. 2022, **Springer**. e-ISBN: 978-981-19-2535-1.
Indexing: Scopus, etc. (<https://www.scopus.com/sourceid/21100901469>)
- 3) S. Gopane, R. Kotecha, “*Enhancing Monitoring in Online Exams using Artificial Intelligence*”. In: International Conference on Data Science and Applications, Kolkata, India. Chapter in Book Series: *Lecture Notes in Networks and Systems*, vol. 287, pp. 183-191, Nov. 2021, **Springer**. e-ISBN: 978-981-19-2535-1.
Indexing: Scopus, etc. (<https://www.scopus.com/sourceid/21100901469>)
- 4) S. Gopane, R. Kotecha, “*Indian Counterfeit Banknote Detection Using Support Vector Machine*”. In: 3rd International Conference on Advanced in Science and Technology, Mumbai, Maharashtra, SSRN ID: 3568724 April 2020, **SSRN-Elsevier**.
- 5) P. Chavda, H. Bhavsar, Y. Pithadia, R. Kotecha, “*Early Detection of Cardiac Disease Using Machine Learning*”, In: 2nd International Conference on Advanced in Science and Technology, Mumbai, Maharashtra, SSRN ID: 3370813, April 2019, **SSRN-Elsevier**.
- 6) A. Koringa, R. Kotecha, D. Patel, “*Imbalanced Data Stream Classification: Analysis and Solution*”. In: *Information and Communication Technology for Intelligent Systems*, Ahmedabad, India. Chapter in Book Series: *Smart Innovation, Systems and Technologies*, vol. 84, pp. 316-324, Aug. 2017, **Springer**.
Indexing: Scopus, etc. (<https://www.scopus.com/sourceid/21100204111>)
- 7) P. Garach, D. Patel, R. Kotecha, “*Privacy-Preserving Associative Classification*”. In: *Information and Communication Technology for Intelligent Systems*, Ahmedabad, India. Chapter in Book Series: *Smart Innovation, Systems and Technologies*, vol. 84, pp. 245-251, Aug. 2017, **Springer**.
Indexing: Scopus, etc. (<https://www.scopus.com/sourceid/21100204111>)
- 8) D. Patel, R. Kotecha, “*Privacy-Preserving Data Mining: A Parametric Analysis*”. In: 5th International Conference on Frontiers in Intelligent Computing: Theory and Applications, Bhubaneswar, India. Chapter in Book Series: *Advances in Intelligent Systems and Computing*, vol. 516, pp. 139-149, March 2017, **Springer**.
Indexing: Scopus, etc. (<https://www.scopus.com/sourceid/5100152904>)
- 9) S. Karn, R. Kotecha, “*RPA-based Implementation of IoT*”. In: 4th International Conference on Advanced in Science and Technology, Mumbai, India, May 2021, **SSRN-Elsevier**.
- 10) R. Singh, R. Kotecha, “*Improving Mapping of Static and Dynamic Objects in SLAM using Deep Learning*”. In: 4th International Conference on Advanced in Science and Technology, Mumbai, India, May 2021, **SSRN-Elsevier**.
- 11) P. Patil, K. Mehta, V. Gosalia, R. Kotecha, “*Predictive Policing for Women’s Safety*”. In: 4th International Conference on Advanced in Science and Technology, Mumbai, India, May 2021, **SSRN-Elsevier**

- 12) N. Khan, D. Bhanushali, S. Patel, R. Kotecha, “*Strengthening e-Education in India using Machine Learning*”. In: 3rd International Conference on Advanced in Science and Technology, Mumbai, India, April 2020, **SSRN-Elsevier**.
- 13) P. Sheth, M. Shah, R. Kotecha, “*Early Prediction of Pre-Diabetes Using Machine Learning*” Proceedings of 3rd International Conference on Advanced in Science and Technology, Mumbai, India, April 2020, **SSRN-Elsevier**.
- 14) T. Malviya, S. Jain, A. Chaudhari, R. Kotecha, “*Enhancing Attainment of Graduate Attributes through Data Mining*”. In: 3rd International Conference on Advanced in Science and Technology, Mumbai, India, April 2020, **SSRN-Elsevier**.
- 15) R. Singh, R. Kotecha, “*Quadruped Robot Gait Planning for Enhanced Locomotion and Stability*”. In: 3rd International Conference on Advanced in Science and Technology, Mumbai, India, April 2020, **SSRN-Elsevier**.
- 16) D. Parekh, H. Shah, D. Shah, R. Kotecha, “*Smart Store-Shopping using BLE Technology*”. In: 2nd International Conference on Advanced in Science and Technology, Mumbai, India, April 2019, **SSRN-Elsevier**.
- 17) K. Dawda, B. Dedhia, M. Desai, R. Kotecha, “*Identifying Potential Breaking News Based on Social Media Posts Using Machine Learning*”. In: 2nd International Conference on Advanced in Science and Technology, Mumbai, India, April 2019, **SSRN-Elsevier**.
- 18) M. Patel, R. Porwal, A. Shukla, R. Kotecha, “*Customized Automated Email Response Bot using Machine Learning and Robotic Process Automation*”. In: 2nd International Conference on Advanced in Science and Technology, April 2019, Mumbai, India, **SSRN-Elsevier**.
- 19) K. Pawar, A. Gupta, R. Kotecha, “*Android Based Car Tracking System*”. In: MULTICON-W 2018: International Conference on Communication, Security & Optimization of Decision Support Systems, Mumbai, India, Feb. 2018.
- 20) R. Shetty, P. Verma, D. Singh, “*Intelligent Tourist System*”. In: MULTICON-W 2018: International Conference on Communication, Security & Optimization of Decision Support Systems, Mumbai, India, Feb. 2018.
- 21) R. Kotecha, S. Siddhpura, “*Decision Support System to Prevent Customer Churn: Enhancing Online Advertising*”. In: MULTICON-W 2018: International Conference on Communication, Security and Optimization of Decision Support Systems, Mumbai, India, Feb. 2018, **McGraw Hill**.
- 22) D. Patel, R. Kotecha, A. Vasant, “*Associative Classification: A Comprehensive Analysis & Empirical Evaluation*”. In: 6th Nirma University International Conference on Engineering, Ahmedabad, India, Nov. 2017, **IEEE**.
- 23) R. Kotecha, S. Garg, “*Data Streams and Privacy: Two Emerging Issues in Data Classification*”. In: 5th Nirma University International Conference on Engineering, Ahmedabad, India, Nov. 2015, **IEEE**.
- 24) R. Kotecha, V. Ukani, S. Garg, “*An Empirical Analysis of Multiclass Classification Techniques in Data Mining*”, In: 2nd Nirma University International Conference on Engineering, Ahmedabad, India. Dec. 2011, **IEEE**.

Book:

- 1) B. Kotecha, R. Kotecha, “*Computer Programming and Utilization - A Practical Approach*”, Ed. 1 & 2, ISBN No.: 978-81-929417-0-7; 2016, Ekta Prakashan.

Book Chapter:

- 1) G. Jha, M. Manelkar, R. Kotecha, “*Interpretability of Self-Supervised Learning for Breast Cancer Image Analysis*”, Chapter in: Explainable AI in Healthcare: Unboxing Machine Learning for Biomedicine, July 2023, Chapman and Hall / CRC. ISBN: 978-1-032-36711-8 (hbk), 978-1-003-33342-5 (ebk).

Indexing: Scopus

• **Patents Published / Granted:**

- 1) **System to Control an Apparatus using Speech Signals and Methods Thereof**
Inventors: K. Borisagar, R. Kotecha, D. Kamdar, N. Ghedia, B. Sedani, N. Kotak, P. Patel
Publication: Indian Patent Journal - No. 12/2022, pp. 17986, March 2022
*Status: **Granted** for 20 Years w.e.f. February 2022 (**Patent No.:** 454102)*
- 2) **A System and Method for Train Crowd Management**
Inventors: J. Obhan, R. Pandey, R. Kotecha, S. Ukarande
Publication: Indian Patent Journal - No. 26/2023, pp. 46425, June 2023
Status: Under Examination

- **Copyright Registered:**

- 1) **Computer Software: Examiner Appointment System**

*Intellectual Property of: S. Ukarande, R. Kotecha, K. J. Somaiya Institute of Technology, and team
Status: Registered w.e.f. August 2023 (RoC No.: SW-17510/2023)*

- 2) **Computer Software: Digital Health Card**

*Intellectual Property of: S. Ukarande, R. Kotecha, K. J. Somaiya Institute of Technology, and team
Status: Registered w.e.f. October 2023 (RoC No.: SW-18171/2024)*

- 3) **Computer Software: Event Management System**

*Intellectual Property of: S. Ukarande, R. Kotecha, K. J. Somaiya Institute of Technology, and team
Status: Registered w.e.f. October 2023 (RoC No.: SW-18166/2024)*

ADMINISTRATIVE ACTIVITIES

- **Initiatives & Outcomes as Head of Information Technology Department at KJSIT:**

Milestones and Targets Accomplished

- 1) Led the 1st cycle of accreditation of the Information Technology program by the **National Board of Accreditation (NBA)** for 03 Years from A.Y. 2022-23.
- 2) **Increase in intake of UG program** in Information Technology from 60 to 120 with effect from A.Y. 2023-24.
- 3) **Research Centre for Ph.D. (Science & Technology) in Information Technology** established with 15 seats offered from the A.Y. 2022-23.
- 4) As the **Chairperson – Board of Studies in Information Technology** under the **autonomy** conferred to the institute, led the design of **state-of-the-art curriculum** for B.Tech. (Information Technology) program focusing on “Learning-by-Doing”.
- 5) **Success Rate of Students’ Graduation** in stipulated time increased to **above 95%**.
- 6) **Placement** of students in the IT department increased to **above 95%**.
- 7) **Admit** of students for **Higher Studies** increased in renowned **International Universities** like Dartmouth, Duke, etc.
- 8) **Culture of Internship** established – and pursued by more than **90%** students in the department during the Summer and Winter vacation.
- 9) **Value added Certification courses** taken by more than **90% faculties and students** of the department throughout the year from SWAYAM, Coursera, Spoken Tutorial, etc.
- 10) From 2019 to 2023, total **37 need-based / live projects** developed by IT students, with mentoring by IT faculties.
- 11) Participation of more than **70% students in hackathons and project competitions by external organizations**, every year, with **40+ notable achievements to students of IT department at State and National-level during 2019-2023**.

Quality Improvement and Assurance Initiatives

- 1) **Revised Vision, Mission, PEOs, and PSOs** of the Information Technology program in February 2019 with emphasis on creating skilled professionals and contributing citizens; and in 2022 with the conferred autonomy.
- 2) Designed and implementing **Department-level Action Plan** in alignment with Institute’s Strategic Growth Plan.
- 3) **Led the curriculum designing** by all the members of the **Board of Studies**, subject-expert faculty members from other departments of the institute, external experts from academia, experienced professionals from IT companies, as well as the alumni working in IT companies across India and abroad.
- 4) Guided the adoption of **Innovative Pedagogical Methods** like Think-Pair-Share, Flipped Classroom, ICT based Tools, etc. and enhanced **quality of teaching** for achieving improved class participation and good academic performance of students.

- 5) Designed and implemented strategy to identify **slow learners** at an early stage, providing them with supplementary resources and focused sessions. Also developed a practice of involving **fast learners** in live and collaborative projects and encouraging their participation in technical events at state / national level to expand their horizons.
 - 6) **Quality improvement of Question Papers and Assignments** through rigorous DQC verification and guidance to faculties.
 - 7) Effective implementation of **Outcome-based Education** by formulating a systematic process for designing Course Outcomes and its mapping with Program Outcomes.
 - 8) Initiated and maintained **interaction with 40+ companies PAN India**, and signed formal **MoUs with 20+** companies for organization of co-curricular activities, seminars, webinars, hackathons, and internship for students.
 - 9) Organized **Faculty Development Programs and Student Development Programs with experts from industries** to impart knowledge of cutting-edge technologies. Organized **Co-curricular & Extra-curricular activities** in the department to facilitate all round development of students.
 - 10) Guidance and motivation to students for participation in various **intra-institute and inter-institute events**, competitions, hackathons, and co-curricular activities.
 - 11) Initiated **Training and Placement Practice Test Series and Competitive Programming Series** for Second Year and Pre-Final Year students, to increase students' performance in placements and get offers for higher salaries. Arranged **mock interviews** with support of alumni for improving performance in placements.
 - 12) Developed **strong alumni connect and engagement** for various student development activities, project guidance, higher studies preparations, etc. Online interaction with alumni is organized **in groups** as per batches of graduation or countries of residence.
 - 13) **Promoted innovation & research** in the department by motivating & guiding students for technical growth through participation in industrial internships, workshops, seminars, etc. and development of contributive projects. Established strong **culture of Project-based Learning**, with improvement in **quality of student projects** by approaching several IT and other industries that can offer live projects to the students or provide customized project statements—projects by the industries.
 - 14) Initiated **Departmental Newsletter “Connections”** to broadcast departmental activities and achievements with all stakeholders.
 - 15) Guided and motivated faculties for **quality research & development** as well as quality publications.
 - 16) Initiated efforts for increase in **IP filing** and technology commercialization.
 - 17) Initiated **Departmental Website** <https://department.kjsieit.in/it> to disseminate information related to the department.
 - 18) **Portals developed by the Department of Information Technology** for digitization and automation of various processes and functioning, deployed and used at Institute-level:
 - **Event Management System (EMS):** <https://ems.kjsieit.in/>
 - **Student Information Management System (SIMS):** <https://www.kjsieit.in/sims>
 - **Placement Information Management System (PIMS):** <https://tnpportal.kjsieit.in>
 - **Examiner Appointment System (EAS):** <https://eas.kjsieit.com/>
- **Other Institute-level Duties at KJSIT:**
- 1) **Coordinator for National Institutional Ranking Framework (NIRF) – India Rankings by Ministry of Education, Govt. of India:** Analysis of NIRF parameters, data coordination, and submission process. Related achievements of the institute include:
 - *Placed in the Rank Band 51-100 in India Rankings 2023 (Innovation Category)*
 - *Placed in the Rank Band 251-300 in India Rankings 2020 (Engineering Category).*
 - 2) **Nodal Officer** at K. J. Somaiya Institute of Technology, Mumbai for **Atal Ranking of Institutions on Innovation Achievements (ARIIA)**, by Ministry of Education (MoE), Govt. of India. Role included detailed understanding

and analysis of the ARIIA framework – I, II, and III and coordinating the data gathering and submission process precisely. Related achievements of the institute include:

- *Placed in Rank Band “Performer” in ARIIA 2021 for A.Y. 2020-21 in category of Colleges / Institutes (Private / Self-Financed) (Technical) participating from all over India.*
 - *Placed in “Rank Band B” in ARIIA 2020 for A.Y. 2019-20 — indicating a Rank between 26 to 50 in category of Private or Self-Financed College / Institutes participating from all over India.*
- 3) **Convener of Institution’s Innovation Council (IIC)** established at K. J. Somaiya Institute of Technology, Mumbai since September 2018 under the guidelines of **Ministry of Education’s Innovation Cell (MIC)**. Contributions made by promoting innovation development, organizing activities to stimulate innovation and entrepreneurship among faculties and students, and accurate data submission. As an outcome, during the Annual Performance evaluation, KJSIT - IIC has been recognized by MIC as:
- *One of the Top 153 IICs in India from 3426 IICs for A.Y. 2022-23*
 - *One of the Top 59 IICs in India from 2834 IICs for A.Y. 2021-22*
 - *One of the Top 10 IICs in India from 2618 IICs for A.Y. 2020-21*
 - *One of the Top 40 IICs in India from 1610 IICs for A.Y. 2019-20*
 - *One of the Top 25 IICs in India from 952 IICs for A.Y. 2018-19*
 - *Best Performing IIC in Western Zone of India from 623 IICs for A.Y. 2022-23*
 - *Best Performing IIC in Western Zone of India from 394 IICs for A.Y. 2021-22*
 - *Best Performing IIC in Western Zone of India from 367 IICs for A.Y. 2020-21*
 - *Best Performing IIC in Western Zone of India from 284 IICs for A.Y. 2019-20*
 - *Best Performing IIC in Western Zone of India from 159 IICs for A.Y. 2018-19*
 - *Selected as Mentor to 05 Institutes under the Mentor-Mentee Programme and received a grant of INR 2.25 Lakhs from MoE and AICTE (twice)*
- 4) Coordinated **M.E. (Artificial Intelligence)** program **initiation** with consultation of industry experts, assisted Board of Studies in **syllabus design**.
- 5) Actively contributed to the **Institute-level Autonomy Syllabus scheme designing** with suggestions for inclusion of Activity-based Learning (ABL) and Technology-based Learning (TBL), etc. along with Project-based Learning (PBL) and Skill-based Learning (SBL) existing in the curriculum by the University of Mumbai.
- 6) As member of **NEP 2020 Implementation Cell**, contributed in planning and implementation of **NEP 2020** by realigning the curriculum, being an autonomous institute.
- 7) Member of **various Committees** such as IQAC and Accreditation Working Committee, R&D Committee, Academic Committee, etc.
- **Key Activities at Other Workplaces:**
- 1) As the **Member – Board of Studies in Information Technology** at the **University of Mumbai**, contributed in **design of syllabus** for courses such as Industry 4.0, Digital Ethics and Netiquettes, etc. as required for other disciplines in the University.
 - 2) Coordinated the **inception of M.E. (Information Technology) program** at **V.V.P. Engineering College**, Rajkot, Gujarat and served as PG coordinator for 02 years: 2015-16 and 2016-17.
 - 3) **Coordinator** of **“Industry-Institute Interaction”** program from the Department of Information Technology at **V.V.P. Engineering College**, Rajkot, Gujarat from 2014 to 2017, establishing tie-ups with 40+ companies for technical advancement of faculties and students, as well as internships and placement opportunities to students.
 - 4) Worked as a **Member** of Departmental **R&D Committee** and **Quality Assurance Cell** at **Thakur College of Engineering & Technology**, Mumbai.
 - 5) Worked as **Co-convener and Editorial Committee Member** of International Conference on Communication, Security and Optimization of Decision Support Systems organized by **Thakur College of Engineering & Technology**, Mumbai on February 23-24, 2018.

- 6) **Coordinator** of 3-months' Internal Hackathon, resulting into development of **20+ innovations** in the Department of Information Technology at Thakur College of Engineering & Technology, Mumbai.
- 7) Worked as a **member** of Departmental **Accreditation Committee, Publication Committee, Cultural Committee** and **Time-Table Coordinator** at V.V.P. Engineering College, Rajkot, Gujarat.

CURRICULAR AND CO-CURRICULAR ACTIVITIES

Academic Activities and Outcomes:

1) **Courses Taught at UG Level:**

- *Data Structures and Analysis*
- *Data Mining and Business Intelligence*
- *Artificial Intelligence*
- *Machine Learning and Deep Learning*
- *Database Management System*
- *Design and Analysis of Algorithms*
- *Operating Systems*
- *Software Engineering, etc.*

2) **Courses Taught at PG Level:**

- *Artificial Intelligence (Interdisciplinary)*
- *Building Blocks of Artificial Intelligence*
- *Bio-Inspired Artificial Intelligence*
- *Soft Computing Methods*
- *Data Mining*
- *Research Methodology, etc.*

- 3) Achieved **100% result** for all the courses taught in UG and PG in past 11 years.
- 4) Received **> 90% teaching feedback** for all the courses taught in UG and PG in past 11 years.
- 5) Conducted an interactive value-added course **Product-Aimed Learning (PAL)** in 2018 to groom the students of Second and Third Year for developing impactful products at K. J. Somaiya Institute of Technology, Mumbai.
- 6) Involved in **exam-related activities** such as university examination paper setting, paper assessment, conducting viva, university exam supervision as Chief Conductor, Senior Supervisor, etc. for Saurashtra University, Gujarat Technological University and University of Mumbai.
- 7) Developed a **“Data Structures’ Visualization Tool”** to learn the concepts of Data Structures through animations and visualizations.
- 8) Chairperson for **design of Syllabus** for Operating Systems and Unix Lab course offered in B.E. (Information Technology) – Semester IV of Syllabus Scheme ‘C’ by University of Mumbai.
- 9) **Visited 16 countries:** France, Italy, Israel, Jordan, Austria, Switzerland, Hungary, Singapore, Finland, etc. for technical and individual exposure.
- 10) Attended **Academic Visits** to institutes R. V. Engineering College, Karnataka and KLE Technological University, Karnataka as organized by K. J. Somaiya Institute of Technology, Mumbai for observing and implementing the best practices in academics and research.
- 11) Attended **Academic Visit** to Vidya Samiksha Kendra, Gandhinagar, Gujarat as organized by Somaiya Vidyavihar IT team to explore **digital transformation initiatives in academics** by Government of Gujarat.

Organization of Faculty Development Programmes:

- 1) Organized **Training Program** on “Innovation and IPR” through **K. J. Somaiya Institute of Technology - Institution's Innovation Council (KJSIT - IIC)** during June 26 – 30, 2023.
- 2) Organized **FDP** on “Research & Innovation Report Writing using LaTeX” at **K. J. Somaiya Institute of Technology, Mumbai** in association with **Spoken Tutorial - IIT Bombay** from December 26 – 31, 2022 for faculties from various institutes.

- 3) Organized **Training Program** on “Innovation and Entrepreneurship” through **Institution’s Innovation Council (IIC)** of **K. J. Somaiya Institute of Technology, Mumbai** under **Mentor-Mentee Programme of Ministry of Education’s Innovation Cell (MIC)** during August 22 – 23, 2022 for faculties of the Mentee institutes.
 - 4) Organized **FDP** on “Innovation and Entrepreneurship” through **Institution’s Innovation Council (IIC)** of **K. J. Somaiya Institute of Engineering and Information Technology, Mumbai** from December 10, 2021 – January 10, 2022 for faculties of the institute.
 - 5) Organized **AICTE (AQIS) Sponsored Short Term Training Programme** on “Leveraging Artificial Intelligence and Data Analytics for Healthcare” through **K. J. Somaiya Institute of Engineering and Information Technology, Mumbai** from January 04 – 09, 2021 for faculties from various institutes.
 - 6) Organized **AICTE (AQIS) Sponsored Short Term Training Programme** on “Leveraging Artificial Intelligence and Data Analytics for Healthcare” through **K. J. Somaiya Institute of Engineering and Information Technology, Mumbai** from December 14 – 19, 2020 for faculties from various institutes.
 - 7) Organized **Peer-Learning Series** on “Innovative Techniques for Online Teaching” at **K. J. Somaiya Institute of Engineering and Information Technology, Mumbai** from July 21-25, 2020 for faculties of the Department of Information Technology.
 - 8) Organized **AICTE - ISTE approved Short Term Training Programme** on “Driving Innovation with DevOps” through Department of Information Technology at **K. J. Somaiya Institute of Engineering and Information Technology, Mumbai** in association with **The IET, Institution’s Innovation Council (MHRD’s Initiative), and the University of Mumbai** from December 09 – 14, 2019 for faculties from various institutes.
 - 9) Organized **ISTE approved STTP** on “Research Trends in Data Mining and Image Processing” at **V.V.P. Engineering College, Rajkot, Gujarat** from August 09-13, 2013 for faculties from various institutes.
 - 10) Organized several Seminars, Webinars, and Workshops on state-of-the-art technologies.
- **Organization of Student Development Programmes / Internships / Competitions:**
 - 1) Organized **Training cum Winter Internship 2023** on “Web Application Development” in association with IT companies, for the students in the Department of Information Technology of **K. J. Somaiya Institute of Technology, Mumbai** from December 15, 2023 – January 07, 2024.
 - 2) Organized **Training cum Summer Internship 2023** on “Web Application Development” in association with IT companies, for the students in the Department of Information Technology of **K. J. Somaiya Institute of Technology, Mumbai** from May 27 – July 03, 2023.
 - 3) Organized **Training cum In-house Summer Internship 2022** on the theme “Business Intelligence Application Development”, for the students in the Department of Information Technology of **K. J. Somaiya Institute of Engineering and Information Technology, Mumbai** from June 17 – July 15, 2022.
 - 4) Organized **Training cum In-house Winter Internship 2021** on the theme “Internet of Everything” for the students in the Department of Information Technology of **K. J. Somaiya Institute of Engineering and Information Technology, Mumbai** from December 03, 2021 – January 03, 2022.
 - 5) Organized **Training cum In-house Winter Internship 2021** on the theme “Web Applications: From Development to Deployment & SEO”, for the students in the Department of Information Technology of **K. J. Somaiya Institute of Engineering and Information Technology, Mumbai** from December 23, 2021 – January 24, 2022.
 - 6) Organized **Summer Internship 2021** on the theme “Innovation and Development” in association with IT companies for the students in the Department of Information Technology of **K. J. Somaiya Institute of Engineering and Information Technology, Mumbai** from June 16 – July 15, 2021.
 - 7) Organized **Value Added Course** on “Digital Trends & Technologies” in association with Tata Consultancy Services (TCS) for all the students of **K. J. Somaiya Institute of Engineering and Information Technology, Mumbai** from April 26 – 30, 2021.
 - 8) Organized **Webinar Series** on “Let’s Talk – Careers” for the students in the Department of Information Technology of **K. J. Somaiya Institute of Engineering and Information Technology, Mumbai** to interact with the Alumni and get career guidance during August 2020.

- 9) Organized **Training cum Summer Internship 2020** on the theme “Towards Industry 4.0” in association with Institution’s Innovation Council (IIC) for all the students of **K. J. Somaiya Institute of Engineering and Information Technology, Mumbai** from June 02 – 04, 2020.
- 10) Organized **Winter Internship 2019** in association with **IT companies** for the students in the Department of Information Technology of **K. J. Somaiya Institute of Engineering and Information Technology, Mumbai** from December 02, 2019 – January 06, 2020.
- 11) Organized **Summer Internship 2019** in association with **IT companies** for the students in the Department of Information Technology of **K. J. Somaiya Institute of Engineering and Information Technology, Mumbai** from June 10 – 21, 2019.
- 12) Organized **Training in Programming**, in association with the IET for the students in the Department of Information Technology of **K. J. Somaiya Institute of Engineering and Information Technology, Mumbai** from March 02 – 09, 2019.
- 13) Organized several **Workshops** on state-of-the-art in Information Technology for the students in the Department of Information Technology of **K. J. Somaiya Institute of Engineering and Information Technology, Mumbai** in Online and Offline mode.
- 14) Organized several **Workshops** to promote the innovation and entrepreneurship ecosystem in the institute through **K. J. Somaiya Institute of Technology - Institution’s Innovation Council (KJSIT - IIC)** from 2019 to 2023.
- 15) **Competitions Organized at KJSIT:**
 - a. Campus Hackathon 2023
 - b. Innovathon 2023 - Innovation Hackathon
 - c. Designerthon 2023 - Design Hackathon
 - d. Campus Kavach 2023
 - e. Campus Hackathon 2022
 - f. Innovathon 2022 - Innovation Hackathon
 - g. Entrepreneurial Case Study Presentation Competition 2022
 - h. Innovathon 2021 - Innovation Hackathon
 - i. Campus Hackathon 2020
 - j. Innovative Business Plan Competition 2020
 - k. Ideathon 2021 - Idea Pitching Competition
 - l. Designerthon 2021 - Design Hackathon
 - m. Idea Competition 2019
 - n. Innovation Day 2019 - Prototype Competition

● **Participation in Development Activities:**

- 1) Attended **Train the Trainer (T3) Program** on “AI for Youth” by Intel during February 13-14, 2024.
- 2) Attended **Conference** on “Intellectual Property and Startups” by Turnip Innovations on January 20, 2024.
- 3) Attended **“International Conference** on Innovative Data Communication Technologies and Application” organized by RVS College of Engineering & Technology, Coimbatore, India during January 10-11, 2024.
- 4) Attended **FDP** on “Cloud Infrastructure (AWS)” from August 21-25, 2023 by Brainovision Solutions India.
- 5) Attended **FDP** on “Innovative Teaching and Learning Pedagogy” organized by Research Foundation of India from June 26 – 30, 2023.
- 6) Attended **FDP** on “Design and Development of Industry Led Curriculum in Technological Era” organized by Association of Indian Universities & AMET University during December 14-22, 2022.
- 7) Attended **FDP** on “Research & Innovation Report Writing using LaTeX” at **K. J. Somaiya Institute of Technology, Mumbai** in association with **Spoken Tutorial - IIT Bombay** from December 26 – 31, 2022 for faculties from various institutes.
- 8) Pursued **Certification** on “Foundations of Project Management” offered by **Google** through Coursera from June – July, 2022.

- 9) Attended **Workshop** on “Climate Smart Precision Farming for Sustainable Development and Augmenting Farmer’s Income” organized by **Somaiya Institute for Research and Consultancy (SIRAC)** at K. J. Somaiya Institute of Applied Agricultural Research, Karnataka from March 08 – 10, 2022.
- 10) Attended “4th **International Conference** in Innovative Computing and Communication (ICICC - 2021)” organized at Shaheed Sukhdev College of Business Studies, New Delhi in association with **National Institute of Technology Patna, University of Valladolid, Spain, and Korea Institute of Digital Convergence, South Korea** during February 19 – 20, 2022.
- 11) Attended **FDP** on “Innovation and Entrepreneurship” organized by **KJSIEIT – Institution’s Innovation Council (IIC)** from December 10, 2021 – January 10, 2022.
- 12) Attended **ATAL FDP** on “Explainable Artificial Intelligence and the Future” – **Indian Institute of Information Technology Kota** from December 20 – 24, 2021.
- 13) Attended **Train the Trainer (T3) Workshop** on Artificial Intelligence and Machine Learning organized by **IBM India** from December 01 – 04, 2021.
- 14) Attended **AICTE Sponsored STTP** on “Practicing Cloud Computing with AWS” organized by **KLE University** from August 16 – 21, 2021.
- 15) Attended **FDP** on “Strategies for Sustaining Quality Culture in Autonomous Colleges” organized by **K. J. Somaiya Institute of Engineering and Information Technology, Mumbai** in association with **Rashtriya Uchchar Shiksha Abhiyan (RUSA)** from June 21 – 25, 2021.
- 16) Attended **Innovation Ambassador Training Program (Advanced)** organized by **Ministry of Education’s Innovation Cell (MIC)** from June 30 – July 31, 2021.
- 17) Attended 4th **International Conference** on “Advances in Science & Technology (ICAST - 2020)” by **K. J. Somaiya Institute of Engineering and Information Technology, Mumbai** in association with **The IET & University of Mumbai** during May 08, 2021.
- 18) Attended 2nd **International Conference** on Data Science and Applications (ICDSA 2021) organized by **Jadavpur University, Kolkata, India and Soft Computing Research Society (SCRS)** during April 10 – 11, 2021.
- 19) Attended **AICTE (AQIS) Sponsored Short Term Training Programme** on “Leveraging Artificial Intelligence and Data Analytics for Healthcare” organized by **K. J. Somaiya Institute of Engineering and Information Technology, Mumbai** from December 14 – 19, 2020.
- 20) Attended **Training Programme - KAPILA: Kalam Programme for IP Literacy and Awareness** organized by **Ministry of Education’s Innovation Cell (MIC)** from October 15 – 23, 2020.
- 21) Attended **ATAL Faculty Development Programme** on “Leadership & Excellence” organized by **IIT Hyderabad** from September 21 – 25, 2020.
- 22) Attended **ATAL Faculty Development Programme** on “Data Science” organized by **NIT Karnataka** from September 7 – 11, 2020.
- 23) Attended 3rd **International Conference** on “Advances in Science & Technology (ICAST - 2020)” by **K. J. Somaiya Institute of Engineering and Information Technology, Mumbai** in association with **The IET & University of Mumbai** during May 28, 2020.
- 24) Attended **FDP** on “R Programming” organized by **S. B. Jain Institute of Technology, Management & Research, Nagpur** in association with **Spoken Tutorial Project, Indian Institute of Technology, Bombay** from May 05 – 09, 2020.
- 25) Attended **Innovation Ambassador Training** on “Innovation, IPR, Entrepreneurship, and Start-ups” organized by **MHRD’s Innovation Cell** from April 28 – May 22, 2020.
- 26) Attended **AICTE - ISTE Approved Short Term Training Programme** on “Driving Innovation with DevOps” organized by **K. J. Somaiya Institute of Engineering and Information Technology, Mumbai** in association with **the IET, Institution’s Innovation Council (MHRD’s Initiative), and University of Mumbai** from December 09 – 14, 2019.

- 27) Attended AICTE-ISTE approved **Refresher Programme** on “Artificial Intelligence, Machine and Deep Learning: Hands-on” organized by **K. J. Somaiya Institute of Engineering and Information Technology, Mumbai** in association with **the IET and the University of Mumbai** from June 24 – 29, 2019.
- 28) Attended 2nd **International Conference** on “Advances in Science & Technology (ICAST - 2019)” by **K. J. Somaiya Institute of Engineering and Information Technology, Mumbai** in association with **The IET & University of Mumbai** during April 08-09, 2019.
- 29) Attended **AICTE approved Faculty Development Programme** cum **NPTEL Online Certification** course on “Data Mining” organized by **IIT Kharagpur** from February to April, 2019. Awarded as **Topper with Elite & Gold grade**.
- 30) Attended **Workshop** “Elsevier Research Connect 2018” organized by **Elsevier** at Radisson Hotel Mumbai on December 20, 2018.
- 31) Attended **Workshop** for finalizing the AICTE’S Internship policy for students of Technical Education Programme in Western Region organized by **AICTE** at Sardar Patel College of Engineering, Mumbai on October 29, 2018.
- 32) Attended **Industrial Training** on Robotics Process Automation organized by **RobonomicsAI and UiPath** under Center of Excellence from September 13-17, 2018 at K. J. Somaiya Institute of Engineering and Information Technology, Mumbai.
- 33) Attended **AICTE approved Faculty Development Programme** cum **NPTEL Online Certification** course on “Introduction to Machine Learning” organized by **IIT Kharagpur** from July to October, 2018 with **Elite grade**.
- 34) Attended **Workshop** on Reference Management organized by **Somaiya Initiatives for Research and Consultancy (SIRAC)** on August 11, 2018.
- 35) Attended **ISTE approved STTP** on “Cyber Security in IoT Applications” from July 02-07, 2018 organized by **K. J. Somaiya Institute of Engineering and Information Technology, Mumbai** in association with **the IET & National Cyber Safety and Security Standards, India**.
- 36) Attended “*International Conference on Communication, Security and Optimization of Decision Support Systems*” under 9th Annual MULTICON-W 2018 organized by **Thakur College of Engineering & Technology, Mumbai** on February 23-24, 2018.
- 37) Attended **FDP** “FDP201x Pedagogy for Online and Blended Teaching-Learning Process” organized by **IIT Bombay** during September 14 – October 12, 2017.
- 38) Attended **FDP** “FDP101x Foundation Program in ICT for Education” organized by **IIT Bombay** during August 03 - September 07, 2017.
- 39) Attended **ISTE approved STTP** on “Advances in Computer Vision & Surveillance System” organized by V.V.P. Engineering College, Gujarat from June 27 - July 1, 2016.
- 40) Attended **ISTE approved STTP** on “Emerging Trends in Cyber Security and Awareness in Cyber Laws” organized by V.V.P. Engineering College, Rajkot, Gujarat from November 30 – December 4, 2015.
- 41) Attended “5th Nirma University **International Conference** on Engineering” organized by Nirma University, Ahmedabad, Gujarat from November 26-28, 2015.
- 42) Attended **ISTE approved STTP** on “Emerging Trends in Cloud Computing and Advance Networking” organized by V.V.P. Engineering College, Gujarat from December 20-24, 2014.
- 43) Attended a **FDP** “Jyoth '14” by V.V.P. Engineering College, Gujarat from June 23-27, 2014.
- 44) Attended **ISTE approved STTP** on “Research Trends in Data Mining and Image Processing” organized by V.V.P. Engineering College, Rajkot, Gujarat from August 09-13, 2013.
- 45) Attended “2nd **International Conference** on Current Trends in Technology” organized by Nirma University, Ahmedabad, Gujarat from December 08-10, 2011.
- 46) Attended “1st **International Conference** on Current Trends in Technology” organized by Nirma University, Ahmedabad, Gujarat from December 09-11, 2010.
- 47) Attended **FDP** named “Effective Teaching and Time Management” organized by Atmiya Institute of Technology and Science, Rajkot, Gujarat from April 24-26, 2010

48) Attended “**National Conference** on Statistics, Computer and Applications” at Saurashtra University, Rajkot, Gujarat on March 13, 2010.

49) Attended several other Seminars and Webinars on state-of-the-art technologies.

• **Delivered Sessions / Services:**

- 1) **Workshop** on “Artificial Intelligence – Basics, Industrial Applications, ANN Learning Algorithms” organized by Dr. Anjuman-I-Islam's Kalsekar Technical Campus, Navi Mumbai on January 16, 2024.
- 2) **Workshop** on “Angel Investment / VC Funding Opportunity for Early Stage Entrepreneurs” organized by Dr. D. Y. Patil Institute of Management and Research, Pune on July 13, 2022.
- 3) **Session** on “Innovations in IT” organized by K. K. Wagh Institute of Engineering Education & Research, Nashik on January 10, 2022.
- 4) **Mentor to 05 Institutes** under the **Mentor-Mentee Programme** with a grant of INR 2.25 Lakhs from MoE and AICTE:
 - a. G. H. Raisoni Institute of Engineering and Technology, Nagpur
 - b. Thakur College of Engineering & Technology, Mumbai
 - c. D. Y. Patil University School of Pharmacy, Navi Mumbai
 - d. Vivekanand Education Society's College of Pharmacy, Mumbai
 - e. D. Y. Patil Institute of Management & Research, Pune
- 5) **Session** on “Machine Learning and IoT” in ATAL FDP on “IoT and Applications” organized by Gujarat Technological University on October 06, 2021.
- 6) **Seminar** on “Innovations in Healthcare” organized by MGM Institute of Health Sciences, Navi Mumbai on July 29, 2021.
- 7) **Session** on “Insights into National Institutional Ranking Framework (NIRF) India Rankings & Atal Ranking of Institutions on Innovation Achievements (ARIIA)” organized by K. J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai on May 29, 2021.
- 8) **Keynote Speaker** for FDP on “Advancement in Data Analytics” organized by the Department of Information Technology, Terna Engineering College, Navi Mumbai from July 02 – 07, 2018.
- 9) **Session** on “Genetic Algorithms for Optimization” in STTP on “Soft Computing for Mechanical Engineers” organized by the Department of Mechanical Engineering, V. V. P. Engineering College, Rajkot from December 14-19, 2015.
- 10) **Session** on “MATLAB Tool” in STTP on “Advances in Computer Vision & Surveillance System” organized by V.V.P. Engineering College, Rajkot, Gujarat from June 27 - July 1, 2016.
- 11) **Judge** for many State level and National-level technical events.

PERSONAL INFORMATION

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

DECLARATION

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

Place: Mumbai, Maharashtra

Date: March 22, 2024

DR. RADHIKA KOTECHA