

## **Dr. SANGEETHA RAJESH**

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### **Academic Details**

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#### **EDUCATIONAL QUALIFICATION**

- Ph.D. in Computer Applications, Annamalai University, Tamil Nadu, India (March 2022)
- Master of Computer Applications, Indira Gandhi National Open University, India. (July 2004)
- B.Sc. Computer Science, School of Technology and Applied Sciences, Mahatma Gandhi University, Kerala, India. (June 2000)

#### **EXPERIENCE**

- K. J. Somaiya Institute of Management, Assistant Professor, Department of Data Science and Technology, August 2014 to present.
- Vivekanand Education Society's Institute of Technology, Lecturer, Department of MCA, August 2013 to July 2014.
- SIES, Nerul, Lecturer, Department of Computer Science, June 2012 to April 2013.
- Bhavna Trust's Junior and Degree College of Commerce and Science, Lecturer, Department of CS/IT, June 2009 to June 2012 and June 2007 to April 2008.

#### **CERTIFICATION**

- Post graduate program in Data Science and Business Analytics, University of Texas.
- Pursuing Microsoft Power BI Certification Course, Great Learning

#### **MANAGEMENT DEVELOPMENT PROGRAMME (Conducted)**

- Advanced Excel, Department of Atomic Energy
- Introduction to Computers, Department of Atomic Energy
- Advanced Excel, Nuvoco Vistas Corporation Ltd.

- Introduction to Digitization, IMC Chamber of Commerce
- Spreadsheet modelling, Executive MBA, G&B.
- MS Office Tools – WeChemie
- Spreadsheet Modeling – TimesPro
- Business Intelligence - TrimesPro

### **INVITED SEMINAR & WORKSHOP**

- Artificial Intelligence and Machine Learning – MBA Executive batches, KJSIM, Mumbai, India.
- Machine Learning and Deep Learning Applications – Late Bhausahab Hiray S. S. Trust's Institute of Computer Applications, Bandra East, Mumbai, India.

### **AWARDS & HONOURS**

- Best Paper Award, in SICTIM '17 organized by Department of Information Technology, K.J. Somaiya Institute of Management Studies and Research, Mumbai.

### **TEACHING AREAS OF EXPERTISE**

- Artificial Intelligence
- Machine Learning
- Deep Learning
- Database Applications
- Data Warehousing and Data Mining
- Business Intelligence
- NoSQL Databases
- Data Science using Python
- Spreadsheet Modeling
- Design and Management of Information Systems

### **FACULTY DEVELOPMENT PROGRAMME (attended)**

- Grant writing skills for funded research, with Faculty & Staff Development Centre (FSDC), Somaiya Vidyavihar University. (November 2024)
- Grounded Theory, Marketing & International Business Department, K J Somaiya Institute of Management, Somaiya Vidyavihar University. (February 2024)

- Research Methodology for Behavioural & Social Sciences, jointly organized by UGC-Malaviya Mission Teacher Training Centre (UGC-MMTTC/ GAD-MMTTC) in collaboration with Faculty & Staff Development Centre (FSDC), Somaiya Vidyavihar University. (January 2024)
- Case teaching and case writing, FSDC, Somaiya Vidyavihar University. (December 2023 & January 2024)
- Advanced Business Decision Support Systems, SWAYAM – NPTEL(2023)
- Shaping a Data Analytics Curriculum for Financial Services Industry, SAS (May 2023).
- Netnography and Digital Ethnography Organized by department of Marketing, K J Somaiya Institute of Management (February 2023)
- Developing and Testing Mediation, Moderation and Mediated Moderation Models in Management Research organized by Department of Marketing, K J Somaiya Institute of Management, (October 2022)
- Data Driven Storytelling organized by Department of Data Science and Technology and Center of Excellence in Data Science of K J Somaiya Institute of Management, (February 2022).
- Machine Learning using R software organized by Department of Business Analytics, K J Somaiya Institute of Management in association with New Jersey City University (NJCU) (March 2022).
- Machine Learning for Computer Vision organized by Electronics and ICT, Academies at IIT Roorkee, MNIT Jaipur, NIT Patna, NIT Warangal and PDPM IIITDM Jabalpur (February 2022).
- Blockchain Technology and its Applications organized by VESIT, Mumbai (April 2021).
- Digital Disruption and Innovation- Unlocking Digitally Enabled Growth Potentials organized by Department of Data Science and Technology, K J Somaiya Institute of Management (April 2021)
- Speech and Image Processing using Machine Learning Techniques organized by Annamalai University (March 2021).
- Data Science organized by Fr. C. Rodrigues College of Engineering, Mumbai (May 2020).
- Advanced Deep Learning Organized by LeadingIndia.ai (Dec 2019).
- AI and Deep Learning Organized by LeadingIndia.ai (Feb 2019).

- Machine Learning with Business Applications Organized by Analytics Society of India, IIM Bangalore (Oct 2018).
- Machine Learning Using MATLAB organized by Mathworks Private Limited (April 2018).
- Speech Signal Processing Organized by E&ICT, NIT Warangal (Nov 2017).

## Research Details

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### **AREA OF SPECILIZATION:**

- Artificial Intelligence & Machine Learning
- Deep Learning
- Business Analytics
- Speech and Music Processing

### **PUBLICATIONS**

- Sangeetha Rajesh & N. J. Nalini (2024) Instrument Emotion Recognition from Polyphonic Instrumental Music using MFCC and CENS Features with Deep Neural Networks, Procedia Computer Science 235, 2548-2556. [SCOPUS]
- Srinivas Subramani, Sangeetha Rajesh, Kirti Wankhede, Bharati Wukkadada (2023) Predicting Stack Overflow Tag: A Deep Learning Approach, IEEE Xplore digital library, pp.64-68. [SCOPUS]
- Kirti Wankhede, Bharati Wukkadada, Sangeetha Rajesh, Sneha Nair (2023) Machine Learning Prediction Techniques for Heart Disease Prediction”, IEEE Xplore digital library, pp.39-43. [SCOPUS]
- Bharati Wukkadada, Kirti Wankhede, Sangeetha Rajesh, C. Ria, Tridib Chakraborty (2023) Alzheimer prediction using machine learning algorithm, IEEE Xplore Digital Library, pp. 28-33. [SCOPUS]
- Sangeetha Rajesh & N. J. Nalini (2023) “Polyphonic Instrument Emotion Recognition using Stacked Auto Encoders: A Dimensionality Reduction Approach, Procedia Computer Science, Elsevier, Volume 218, pp.1905-1914. [SCOPUS]
- Sangeetha Rajesh. & N. J. Nalini. (2021), Recognition of Musical Instrument Using Deep Learning Techniques, International Journal of Information Retrieval Research, Vol. 11(4). [ESCI (Web of Science), UGC-CARE].

- Sangeetha Rajesh. & N. J. Nalini. (2021), Combined evidence of MFCC and CRP features using machine learning techniques for singer identification, International Journal of Pattern Recognition and Artificial Intelligence, Vol. 35(1), 2158001. [SCOPUS, SCIE (Web of Science)].
- Sangeetha Rajesh. & N. J. Nalini. (2020), Instrument Emotion Recognition using Deep Recurrent Neural Networks, Procedia Computer Science, Elsevier, Vol. 167, pp. 16-25. [SCOPUS]
- Sangeetha Rajesh. & N. J. Nalini. (2019), Singer Identification using MFCC and CRP with Support Vector Machines, Springer Advances in Intelligent Systems and Computing, Computational intelligence in pattern recognition, Vol 999, pp.295-306. [SCOPUS]
- Sangeetha Rajesh, Nilakantan Narasinganallur, Trushal Asolkar, (2019) Box office Prediction using Predictive Analytics, Indian Journal of Economics and Businesses. [SCOPUS, Category 'C']
- Srinivas Subramani, Advait Avadhoot Joshi, Sangeetha Rajesh (2019), Vehicle Identification using Support Vector Machines , Journal of Engineering , pp. 18-21.
- Sangeetha Rajesh, (2015) Analysis of Security in Cloud–Learning systems, International Journal of Scientific Research in Computer Science and Engineering, 5(1), pp. 3-6.
- Priti S. Sharma , Sangeetha Rajesh, (2018), Pervasive Traffic Management using OBDUINO and Cloud Server, Journal of Computer Engineering ,PP 50-55
- Pendbhaje, A., & Rajesh, S. (2018). IOT In Home Grocery Management, Journal of Computer Engineering, pp. 44-49.
- Swati Kalyanasundar , Sangeetha Rajesh, (2018) Automatic Vegetable Detection and Recipe Suggestion, Journal of Computer Engineering, pp. 78-85.
- Lalit A, Sangeetha R.(2018) Fuzzy logic system in Tomato Farming, Journal of Computer Engineering, pp. 56-62.
- Sangeetha Rajesh, Saurabh Jadhav, Neha Singh (2017) Ubiquitous Aquarium Management System, Journal of Computer Engineering.
- Sangeetha Rajesh, (2017) Analysis of Security in Cloud-Learning Systems, International Journal of Scientific Research in Computer Science and Engineering, Volume-5, Issue-1.
- R Sangeetha, (2016) Ubiquitous energy efficient aquaculture management system. IEEE Xplore Digital Library, pp.1124-1128. [SCOPUS]

- R Sangeetha, CS Lifna, (2015 ) UI design for Language Translator Module in Swasthya slate (m-Health tool), IEEE Xplore Digital Library, pp. 1340-1344. [SCOPUS]

### **CONFERENCES (Research Paper Presented)**

- Sudarshan Sirsat, Sangeetha Rajesh, (2025) AI powered multi face recognition for real time attention span tracking', Samavaya 2025, K J Somaiya Institute of Management.
- Sangeetha Rajesh, N J Nalini (2024) Instrument Emotion Recognition from Polyphonic Instrumental Music using MFCC and CENS Features with Deep Neural Networks, International Conference on Information Technology: IoT and Smart City, University of Malaya, Kuala Lumpur, Malaysia.
- Sangeetha Rajesh, N J Nalini (2023) Instrument emotion recognition from polyphonic instrumental music using MFCC and CENS features with Dee Neural Networks, International Conference on Machine Learning and Data Engineering, ICMLDE 2023, UPES, Dehradun
- Srinivas Subramani, Sangeetha Rajesh, Kirti Wankhede, Bharati Wukkadada, (2023) Predicting Stack Overflow Tag: A Deep Learning Approach, IEEE 9<sup>th</sup> Somaiya International Conference on Technology and Information Management, K J Somaiya Institute of Management, Somaiya Vidyavihar University, Mumbai.
- Kirti Wankhede, Bharati Wukkadada, Sangeetha Rajesh, Sneha Nair, (2023) Machine Learning Prediction Techniques for Heart Disease Prediction", IEEE 9<sup>th</sup> Somaiya International Conference on Technology and Information Management, K J Somaiya Institute of Management, Somaiya Vidyavihar University, Mumbai.
- Bharati Wukkadada, Kirti Wankhede, Sangeetha Rajesh, C. Ria, Tridib Chakraborty, (2023) Alzheimer prediction using machine learning algorithm, IEEE 9<sup>th</sup> Somaiya International Conference on Technology and Information Management, K J Somaiya Institute of Management, Somaiya Vidyavihar University, Mumbai.
- Sangeetha R, N. J. Nalini, (2022) Polyphonic Instrument Emotion Recognition using Stacked Auto Encoders: A Dimensionality Reduction Approach, International Conference on Machine Learning and Data Engineering, ICMLDE, UPES, Dehradun.
- Sangeetha R, N. J. Nalini, Bharati W, (2020) Singer Identification using CNN-LSTM, Somaiya International Conference on Technology and Information, SICTIM K.J. SIMSR, Mumbai.

- Panda Devendra Radhakrishna, Sangeetha Rajesh, (2020) A Comparative Analysis of Deep Learning Techniques for Sentiment Identification from Reviews and Tweets, Somaiya International Conference on Technology and Information Management.
- Sangeetha R, N. J Nalini, (2019) Singer Identification using MFCC and CRP with Support Vector Machines in the international conference on Computational Intelligence and Pattern Recognition, CIPR organized by Indian Institute of Engineering Science and Technology, Kolkata.
- Srinivas Subramani, Advait Avadhoot Joshi, Sangeetha Rajesh, (2019), Vehicle Identification using Support Vector Machines, Somaiya International Conference on Technology and Management.
- Sangeetha Rajesh, Nilakantan Narasinganallur, Trushal Asolkar, (2019) Box office Prediction using Predictive Analytics, Somaiya International Conference on Technology and Management.
- Sangeetha R, N. J Nalini, (2019) Singer Identification using MFCC and CRP with Support Vector Machines, international conference on Computational Intelligence and Pattern Recognition, organized by Indian Institute of Engineering Science and Technology, Kolkata.
- Sangeetha R, N. J Nalini, (2019) Instrument Emotion Recognition using Deep Recurrent Neural Networks, International Conference on Computational Intelligence and Data science, ICCIDS 2019 organized by North Cap University, Gurugram.
- Sangeetha R, N. J Nalini, (2019) Machine Learning Techniques for MIR Applications, International Conference on Advances in Computing and Information Technology, Department of Computer Science and Engineering, FEAT, Annamalai University, Chidambaram.
- Akshay Pendbhajhe, Sangeetha Rajesh, (2018) IOT in Home Grocery Management, Somaiya International Conference on Technology and Information Management, K. J. Somaiya Institute of Management Studies and Research, Mumbai, India.
- Priti S Sharma, Sangeetha R., (2018) Pervasive Traffic Management using OBDUINO and Cloud Server, Somaiya International Conference on Technology and Management.
- Swati K, Sangeetha R., (2018) Automatic Vegetable Detection and Recipe Suggestion, Somaiya International Conference on Technology and Management.
- Lalit A, Sangeetha R., (2018) Fuzzy logic system in Tomato Farming, Somaiya International Conference on Technology and Management.

- Sangeetha R., Saurabh Jadhav, Nehasingh (2017) Ubiquitous Aquarium Management System, Somaiya International Conference on Technology and Management,
- R Sangeetha, (2016) Ubiquitous energy efficient aquaculture management system. IEEE International Conference on Advances in Computing, Communications and Informatics (ICACCI), Jaipur, Rajasthan, India.
- R Sangeetha, CS Lifna, (2015 ) UI design for Language Translator Module in Swasthya slate (m-Health tool), IEEE International Conference on Advances in Computing, Communications and Informatics (ICACCI), Kochi, Kerala, India.

### **PATENT**

- Multi modal Alzheimer's Disease Severity Detection and Music Therapy Recommendation System.
- AI Powered Multi Face Recognition and Attention Span Tracker.

### **RESEARCH PROJECT**

- IoT based attention span identification and smart attendance system: a periodic study to analyze ideal attention time span of post graduate students.

### **Professional Activities**

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#### **Technical Program Committee Chair & Conference Co-Chairperson**

- 9<sup>th</sup> Somaiya International Conference on Technology and Information Management, SICTIM '23 in association with IEEE Bombay Section.

#### **Journal Review:**

- Journal of Big Data
- International Journal of Fuzzy System
- American Journal of Applied Sciences
- American Journal of Engineering and Applied Sciences
- Journal of Computer Science
- International Journal of Reconfigurable and Embedded Systems

#### **International Conference Review:**

- International Conference on Information Technology: IoT and Smart City, ICIT 2024.
- International Conference on Machine Learning and Data Engineering, ICMLDE 2024.



- International Conference on Machine Learning and Data Engineering, ICMLDE 2023.
- Somaiya International Conference on Technology and Information Management, SICTIM 2023.
- International Business Analytics Conference 2023.
- Somaiya International Conference on Technology and Information Management, SICTIM 2022.
- Somaiya International Conference on Technology and Information Management, SICTIM 2021.
- International Conference on Computational Intelligence in Data Mining, ICCIDM '21
- Symposium on Machine Learning and Metaheuristics Applications, SoMMA '19
- Symposium on Emerging Topics in Computing and Communications, SETCAC '19
- International Symposium on Intelligent Systems Technologies and Applications
- Advances in Image Processing Computer Vision, Pattern Recognition and Machine Learning, ICPM '18
- International Conference on Advanced Computing, Communications and Informatics, ICACCI '17
- Symposium on Intelligent Informatics, ISI '17
- Symposium on Intelligent Informatics, ISI '16
- Symposium on Emerging Topics in Computing and Communications, SETCAC '16
- Machine Learning Algorithms and Applications, MLAA '15
- Symposium on Emerging Topics in Computing and Communications, SETCAC '15

## Administrative Roles

Details	Under the Program	Contributions
Digital Transformation Committee	Institute Level	Chairperson
Accreditation committee	Institute Level	Knowledge Management System
13th International Conference on Sustainable Waste Management and Circular Economy	Institute Level	Conference Committee Track In charge
Examiner for the RTA entrance examination March 2024 – Paper A	University Level	Paper Setter
Somaiya International Conference in Technology and Information Management – 2023	Post Graduate	<ol style="list-style-type: none"> <li>1. Technical Programme Committee (TPC) Chair</li> <li>2. Editorial Team</li> <li>3. Co-Convenor</li> </ol>

Technical Sponsorship by IEEE Bombay Section		4. Organizing Committee
Co-coordinator	Post Graduate	Planning and execution of Inauguration and Induction for MCA from Batch 2017-20 to 2023-25, Managing sessions, Mentoring students in research paper and internship projects
Curriculum Committee PGDM & MBA – Data Science Specialization MBA – Data Science and Analytics	Post Graduate & University	Curriculum design for courses Business Intelligence, AI & ML, Database Concepts, NLP, Digital Marketing, Deep Learning, Design and analysis of Algorithms.
NAAC committee	Institute Level & University Level	Criteria 2 Data
MCA – BOS From 2022-23 onwards	University	Member
ICON – Techfest	Post Graduate	ICON '22 Convenor ICON '21 Co-Convenor
NPTEL Local Chapter	Post Graduate	SPOC – Managing the enrolment and mentor allocation
SVU MCA Entrance Examination committee	University	Entrance Examination Question Paper preparation
PERA CET Committee	University	Entrance Examination Question Paper preparation
Examination Committee	Post Graduate	Result Moderation & Approval, College Examination Audit, College Examination Flying Squad,
SPRIHA From: AY 2016-17 to 2023-24	Post Graduate	MBA summer project inter college competitions, Consolidation of summer project marks from MBA students, Shortlisting of students in all levels, intra final and inter final in-charge
KJ SIM Convocation Committee From: AY 2015-16 to 2022-23	Post Graduate	Budget and Expenses details Maintenance, Stage & Audience Management
SVU Convocation Committee From : AY 2022-23 to present	University	Medal Committee
Public Relations Committee	Post Graduate	Maintaining Expenses
Quality Management Committee (ISO Audit) From AY 2018-19 to 2022-23	Post Graduate	Conducted Internal Audit of Processes Data Centre & Various programmes, In-charge of external audit for few processes.
Digital Transformation Committee	Post Graduate	Managing Coursera Enrolment, Attendance S/W system implementation
Placement Process Software	Post Graduate	Member
Alumni Committee AY 2016-17	Post Graduate	Alumni meets.
Workshops Organized	Post Graduate	1. Cloud Computing in association with IWSA

		2. Tableau – MCA
Workshops Conducted	Post Graduate	Faculty - online LMS and meeting tools training
Round Table Conference	Post Graduate	Organized