

Faculty Profile: Kanchana R

	Mrs. Kanchana R Assistant Professor Computer Science & Engineering East Point College of Engineering & Technology Email ID kanchanar.cse@eastpoint.ac.in vidwan ID https://vidwan.inflibnet.ac.in/profile/562351 ORCID ID : https://orcid.org/0009-0000-2394-3077 Researcher ID : https://www.webofscience.com/wos/author/record/6 Google scholar ID https://scholar.google.com/citations?user=Y-p5fz4AAAAJ
	Profile Mrs. Kanchana R has completed a Mtech. in Computer Science & Engineering from Cambridge College of Engineering(VTU) and B E in Computer Science & Engineering from Alpha college of Engineering(VTU). I began my teaching career as a Lecturer in the Department of Information Science and Engineering at Alpha College of Engineering, Bengaluru, where I served from 21 August 2006 to 31 December 2008. I then worked as a Lecturer in the Department of Information Science and Engineering at Srinivasa Institute of Engineering College, Chennai, from 22 June 2009 to 31 March 2010. Later, I joined SEA College of Science, Commerce and Arts as a Lecturer in the Department of Computer Science, where I served from 1 February 2023 to 2024. In August 2024, I joined the Department of Computer Science and Engineering at East Point College of Engineering and Technology, Bengaluru, as an Assistant Professor. I am currently serving in this role and have nearly two years of teaching experience at the institution, contributing to undergraduate teaching, academic administration, mentoring students, and departmental activities.
	Area of Specialization C, C++, Data Structure, Computer Organization, Computer Network, Web Programming, Big data, Data Mining, UML using object oriented,Data Structure,ADA Publications • Kanchana R, S. V. Ramanan, R. C. Rana, P. Mohana, L. Lokesh, and Rakesh V. S., “Machine Learning Enabled IoT Embedded Platform for Real-Time Anomaly Detection in Drug Delivery Devices,” <i>International Journal of Drug Delivery Technology</i>, Q3, vol. 16, no. 66s, pp. 1068–1075, 2026, doi: 10.25258/ijddt.16.66s.111. • Triveni N, Kanchana R, Shashikala S, Rahul, Lakshmi Shree M. S., and Rakesh V. S., “AI and Deep Learning-Assisted Smart Drug Delivery System with IoT-Based Patient Monitoring,” <i>International Journal of Drug Delivery Technology</i>, Q3, vol. 16, no. 58s, pp. 697–703, 2026, doi: 10.25258/ijddt.16.58s.75. • Shammi L, Chiranth M. V., Kanchana R, and Sadhvi, “Enhancing Cybersecurity in Financial Systems Using a Stacked Ensemble Approach with Gradient Boosting and SVM,” <i>2025 IEEE 2nd International Conference on Information Technology, Electronics and Intelligent Communication Systems (ICITEICS 2025)</i>, Bengaluru, India, Aug. 29–30, 2025, IEEE Xplore, doi: 10.1109/ICITEICS64870.2025.11341420. • Manimozhi, Neha Gopal N, Bakiya Lakshmi B, Kanchana R, Divyashree N, and Inderbir Singh, “Nutrition Reinvented: AI-Powered System for Personalized Dietary Insight,” <i>International Journal of Environmental Sciences</i>, vol. 11, no. 20s, pp. 1003–1014, 2025 • Kanchana R, Akshithakrishna, Gali Yaswanth Sinha, Janhavi K, and S. Lekhana Priya, “IoT-Based Vehicle-to-Vehicle Communication for Chain Collision Prevention,” <i>International Journal of Computer Application</i>, vol. 15, no. 6, pp. 265–278, 2025, doi: 10.5281/zenodo.18063650.

	● Mahanthesha U, Divyashree N, Kanchana R, Deepika K. C., Naveen N, and Prathibha G, “Smarter Help and Seamless Experience of Automated User Responsive Assistant (AURA) Robot using NLP,” <i>Tuijin Jishu/Journal of Propulsion Technology</i>, Q4, vol. 46, no. 2, pp. 1534–1543, 2025.
	Patent
	● Kanchana R et al., “Securing Agentic AI Systems: Security Risks in Autonomous AI Agents, Prompt Injection Prevention, and Trust Management Frameworks,” Indian Patent, Application No. 202641076110, Published on 26/06/2026. ● Kanchana R et al., “CybIoT-Secure: Real-Time Cyber Threat Monitoring and Intelligence for Next-Gen IoT Security Systems,” Indian Patent, Application No. 202541101743, Published on 28/11/2025. ● Kanchana R et al., “Adaptive Threat Detection System Using Reinforcement Learning for Network Intrusion Prevention,” Indian Patent, Application No. 202521061834, Published on 18/07/2025.
	Others
	● FDP on Transformative Approaches in Computing Paradigm – Machine Intelligence and Quantum Computing ● FDP on Design and Development of AI Agents using LLMs: A Hands-on FDP from Theory to Practice ● FDP on Design and Analysis of Algorithms. ● FDP on Securing the future :Cybersecurity,forensics,and the world of blockchain. ● FDP on Build Automate Deploy:A Devops journey for educators. ● International Conference by EPCET on AI Powered Nutrition System for Enhanced Dietary Monitoring and Health Promotion. ● IEEE 2 n d International Conference by Vemana Institute of Technology on Enhancing Cybersecurity in Financial Systems Using a Stacked Ensemble Approach with Gradient Boosting and SVM. ● OfficeMaster(Workshop) on Microsoft Excel Using AI . ● CMRIT(Workshop) on Convolutional Neural Networks Applications and Advancements.

	Experience, Q3, Oct. 2024.DOI: 10.12694/scpe.v25i6.33 - Manimozhi, S. Saha, I. Perumal, V. R. Niveditha, M. Abbas, and C. R. Bhatt, “Contextual information-based scheduling for service migration in mobile edge computing,” International Journal of Computers Communications & Control, May 2024. DOI: 10.15837/ijccc.2024.3.6143 - Manimozhi, M. M. Musthafa, T. R. Mahesh, and S. Guluwadi, “Optimizing double layered convolutional neural networks for efficient lung cancer classification through hyperparameter optimization and advanced image preprocessing techniques,” BMC Medical Informatics and Decision Making, May 2024. DOI: 10.1186/s12911-024-02553-9 - Link of Paper: 24:142 https://doi.org/10.1186/s12911-024-02553 - Dr.I. Manimozhi “A Survey on Machine Learning Algorithms for the Detection of Chronic Kidney Diseases “published in IEEE Explore,224 - Dr. I. Manimozhi Contextual Information Based Scheduling for Service Migration in Mobile Edge Computing “published in International Journal of Computers Communications & Control (SCI) ISSN: 18419836 H index 39 /Q1 Link of Paper :2024-05-04 https://doi.org/10.15837/ijccc.2024.3.6143 - Dr. I. Manimozhi Trustworthy Artificial Intelligence and Automatic Morse Code Based Communication Recognition published in Journal of Mobile Multimedia Scopus Elsevier/ Q2,2023 - Dr.I.Manimozhi , Mahesh T R ,Dr. Vinoth “Early Predictive Model for Detection of Plant Leaf Diseases Using MobileNetV2 Architecture” published in Intelligent Systems And Applications In Engineering ISSN:2147-679921,February 2023 - Dr. I.Manimozhi, Dr. T. K Sateesh Dr.I.Manimozhi , “An emotion intelligence auto music play for COVID 19 pandemic” published in Specialusis Ugdyms, , June , 2022 - Suguna devi , Dr.I.Manimozh , Neha Gopal N “Mucormycosis Image classification based on the severity by using Convolutional Neural Network(CNN)” published in Specialusis Ugdyms, ,ol 1 43, 1392-5369 July , 2022 - Dr.I.Manimozhi , Dr.T.K. Sateesh “An emotion intelligence auto music play for stress burst based on Nomogram model for quarantine and self-isolation people using deep learning in COVID 19 pandemic” published in Journal of Positive School Psychology (JPSP), Vol. 6, No. 3, 6467–6473 ,2022 - Dr.I.Manimozhi ,Dr. Swathi “Automation Framework for Post Development Medical Device Application (QT/QML)” published in Jundishapur Journal of Microbiology vol 15, No , 2022 - Dr I.Manimozhi, Dr .Muthukumaran “Public Key Encryption With Equality Test for Industrial Internet of Things Based on Near-Ring” published in IJeC: Volume 17, Issue 3, Article 2, 2020 with indexing of WOS & Scopus - Dr. I. Manimozhi , Prof . Sagarika Bhera “An efficient approach towards analysis and validations of machine intelligence models for pulmonary tuberculosis drugs resistance” published in Journal of critical review with DOI: 10.31838/jcr.07.13.473 Scopus indexed, ISSN- 2394-5125 pp 2916-2922
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- Dr. I. Manimozhi, Dr Manoj Challa , “An Intelligent Modified Approach towards Synthesizing Virtual Human Sign Language Text for the Hearing Impaired

	Communications based on OCR” Published in International Journal of Control and Automation , Scopus indexed Vol 13. No 2 pp 710-715 April 2020, impact factor 2005-4297 • Dr. I. Manimozhi , Prof . Manoj Challa “Enhancing QOE in Online Video Streaming based on Random Forest Regression Prediction Towards Future Popularity of a Video” published in Test Engineering and Management “ Scopus indexed March 2020, ISSN:0193-4120,pp 13109-13113,DOI • I. Manimozhi, Dr.S.Janakiraman “Defect Detection In Pattern Texture Analysis Using Improved Support Vector Machine”, Cluster Computing, ,Impact: 2.040 , Springer US. Indexed in SCIE, Scopus, UGC approved list,2018 • I. Manimozhi Dr. S. Janakiraman “Automated smart Kitchen monitoring and controlled system” is published in Journal of advanced research in dynamical control system, Scopus (IJRDCS) 2017,ISSN 1943-023X • I. Manimozhi, Dr.S.Janakiraman, 2016, ‘Defect Detection in Pattern Texture Analysis Based on Kernel Selection in Support Vector Machine’, Indian Journal of Science&Technology, Vol. 9, Issue. 45, Indexed in pp 1-4 Scopus, Listed in UGC Approved ,2017,pp 353-360 • I. Manimozhi, Dr.S. Janakiraman, presented paper entitled ‘Defect Detection in Pattern Texture Analysis Based on Kernel Selection in SVM’, in 1st International Conference on Advanced and Intelligent Computing technologies organized by MVJ College of Engg., Bengaluru during 25 – 26th August 2016. • I. Manimozhi ESIC: Embedded smart ID card based on Android Platforms is published in International Journal of Computer Applications and Robotics Vol 3 issue 2 June 2015 • I. Manimozhi, Dr.S.Janakiraman "Defect Detection in Pattern texture Analysis" is presented in IEEE International conference in communication and signal processing ICCSP April 2014 Tamilnadu and published in IEEE digital library in 2015 • I. Manimozhi, Dr.S.Janakiraman “Defect Detection in Pattern Texture Analysis”, IEEE Digital Explore - Proceedings of IEEE International Conference on Communication and Signal Processing, DOI: 10.1109/ICCSP.2014.6949822 pp: 172 - 175. , 2014 • I. Manimozhi “A study on security in Internet Enabled TV” published in International Journal Mobile and Adhoc Network with ISSN 22316825.pp 188-193 August 2011. • I. Manimozhi “Enhancement security on Smart TV Web Applications” published in International Institute for Science, Technology and Education vol2 issue2 pp 12-16 October 2011. • I. Manimozhi Uma “3GPP-LongTermEvolution (LTE)”was presented in National Conference on CMRIT on 14th and 15th May 2009 Conference
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	• Dr. I.Manimozhi & Mr. Arun Kumar titled “Reinforcement learning based adaptative load balancing for optimized resource utilizations in cloud computing ” published in IEEE 2025 International conference on emerging engineering technologies in applications , IEEE DOI: 10.1109/IC-EETA66496.2025.11548511 • Dr.I.Manimozhi & Mr. Arun kumar titled “ Context embedding in natural language for kneer chat responses IEEE DOI: 10.1109/IC-EETA66496.2025.11548050
	• Dr I.Manimozhi , Dr.Manoj challa titled “An Efficient Approach towards Translation of Tulu Written Letters to Kannada Character Based on Optical Character Recognition” in ICMTCI 4.0 ,2022.ICCMC-2021 • I. Manimozhi, Dr.S.Janakiraman titled "Defect Detection in Pattern texture Analysis" is presented in IEEE International conference in communication and signal processing ICCSP April 2014 Tamilnadu and published in IEEE digital library in 2015 • Manimozhi, Dr.S.Janakiraman “Defect Detection in Pattern Texture Analysis”, IEEE Digital Explore - Proceedings of IEEE International Conference on Communication and Signal Processing, pp: 172 - 175. , 2014
	Industry course completions

	● Dr. I. Manimozhi completed Oracle Cloud Infrastructure 2025 AI Foundations Associate (1Z0-1122-25) ● Dr. I. Manimozhi completed Data science Foundations Associate 2025 ● Dr. I. Manimozhi completed Oracle Fusion AI Agent Studio Foundations Associate - Rel 1 (1Z0-1145-1) ● I.Manimozhi completed object oriented programming using python in Infosys campus connect program, august 2023 ● I.Manimozhi completed cyber security using python in Infosys campus connect program, august 2023 ● I.Manimozhi completed cryptography in Infosys campus connect program, June 2023 ● I.Manimozhi completed basics of Python in Infosys campus connect program, June 2023 ● I.Manimozhi completed Building video AI applications at the edge on jetson Nano in NVIDIA ● I Manimozhi Completed UiPath Course on Step into Robotic Process Automation ● I Manimozhi certified award of final exam completed in Artificial and Machine Learning in Java Cumulative exam by Oracle Academy on 9th April 2021. ● I Manimozhi certified in Artificial and Machine Learning in Java by Oracle Academy on 9th April 2021. ● I Manimozhi certified award of course completed in Artificial and Machine Learning in Java by Oracle Academy on 9th April 2021. ● I Manimozhi certified award of course completed in Data Base Foundation(DFo) in by Oracle Academy on 1st May 2021 ● I Manimozhi certified award of final exam completed in Data Base Foundation(DFo) in by Oracle Academy on 1st May 2021 ● I Manimozhi certified award of final exam completed in Data Base Foundation Cumulative (DFo) in by Oracle Academy on 1st May 2021 ● I Manimozhi certified award of final exam completed in java Programming in by Oracle Academy on 1st May 2021 ● I.Manimozhi completed object oriented programming using python in Infosys campus connect program, august 2023 ● I.Manimozhi completed cyber security using python in Infosys campus connect program, august 2023 ● I.Manimozhi completed cryptography in Infosys campus connect program, June 2023 ● I.Manimozhi completed basics of Python in Infosys campus connect program, June 2023 ● I.Manimozhi completed Building video AI applications at the edge on jetson Nano in NVIDIA ● I Manimozhi Completed UiPath Course on Step into Robotic Process Automation ● I Manimozhi certified award of final exam completed in Artificial and Machine
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	Learning in Java Cumulative exam by Oracle Academy on 9th April 2021. ● I Manimozhi certified in Artificial and Machine Learning in Java by Oracle Academy on 9th April 2021. ● I Manimozhi certified award of course completed in Artificial and Machine Learning in Java by Oracle Academy on 9th April 2021. ● I Manimozhi certified award of final exam completed in Artificial and Machine Learning in Java by Oracle Academy on 9th April 2021. ● I Manimozhi certified award of course completed in Data Base Foundation (DFo) in by Oracle Academy on 1st May 2021. ● I Manimozhi certified award of final exam completed in Data Base Foundation (DFo) in by Oracle Academy on 1st May 2021 ● I Manimozhi certified award of final exam completed in Data Base Foundation Cumulative (DFo) in by Oracle Academy on 1st May 2021 ● I Manimozhi certified award of final exam completed in java Programming in by Oracle Academy on 1st May 2021 Achievement ● NBA process trainer ● Associate director of IQAC ● NBA CO PO attainment automated excel process ● 2 International conferences organized as a convener ● Overall Program Assessment Coordinator ● Research & Development head ● BOE & BOS in autonomous and university level ● IEEE&IEEE TEMS member ● Best Teacher award ● Best session Plan coordinator ● BOE member of VTU (2023-2024) ● BOS- VTU Nominee to Gopalan College of Engineering & Management- 2026-2029
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