Faculty	**Dr. Manimegalai A** **Associate Professor – Computer Science & Engineering** **East Point College of Engineering & Technology**
	Dr. Manimegalai A holds a Ph.D. degree from Visveswaraya Technological University, Belagavi, MTech. degree from Sathyabama University and B.E. degree in Computer Science & Engineering from Golden Valley Institute of Tech. K G F. She has worked at M V Jayaraman College of Engineering as Assistant Professor and currently rendering her service in East Point College of Engineering and Technology. A dedicated, passionate teacher having 22 years of experience in academics. Her area of specialization is Image Classification & Retrieval, Machine Learning and Deep learning and Artificial Intelligence. She has published papers in Journals and also presented papers in conferences too. She has participated in Faculty development programs, workshops and webinars in varied institutions. She has done NPTEL courses and training programs organized by E & ICT Academy, IIT Guwahati & Kanpur. She has received certificate of appreciation for achieving flawless 100% result. She has also achieved Best Teacher award twice, from department of ISE at M V Jayaraman College of Engineering. She has taken up many responsibilities like C2 NAAC coordinator, C4 NBA coordinator, Result Analysis coordinator, LIC coordinator, department level sports activities etc.
	• Published a paper on "An Approach for fast retrieval of Images by deploying CBIR on cloud" paper code-01-2018-329 in EECCMC-2018. • Published a paper on "Automating Image Retrieval using RPA by Extricating Colour Feature with String comparison in CBIR" published in IJNIET Journal, Volume14 Issue 2-July 2020, pp.14-20. • Presented a paper on "Prediction Model for Pneumonia using Convolutional Neural Network and RPA" in ICMTCI-4.0(2020) • Published a paper on "Prediction Model for Pneumonia using Convolutional Neural Network and RPA" in Lino Journal, Volume11 Issue 1-Jan 2021 • Published a paper "Hadoop MapReduce Framework for Performance Aware Scheduling", International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Volume 9, Issue 9, Year Jan 2023. • Published a paper "Detection of KOA & RA severity using deep learning technology", IJARESM, Vol 11, Issue 5, May 2023 • Published a paper "Detection and Classification of Arthritis Severity based

on Kellgren-Lawrence grading Using CNN models", International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Volume 9, Issue 9, July august Year 2023

- Published a paper "Analysis of Parallel Data Processing for The Sentimental Analysis Technique Using Spark and Machine Learning Algorithms", International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Volume 9, Issue 9, July august Year 2023.

- Participated 1 week FDP organized by East Point College of Engineering Technology on "Exploring Generative AI" in the month of Jan-2024.

- Published a paper "Deep ensemble architectures with heterogeneous approach for an efficient content-based image retrieval", IAES International Journal of Artificial Intelligence, Vol 13 No 4, Year 2024, Pages 4843-4855.

- Published a paper "Detecting Diabetic Foot Ulcer with CNN and CapsNet: A Comparative Investigation of Model Performance", International Journal of Innovative Research In Information Security", Volume 10, Issue 4, May Year 2024.

- Published a paper "Enhancing Signature Forgery Detection System using CNN-SVM", International Journal of Innovative Research In Information Security, Volume 10, Issue 4, Year 2024.

- Published a paper "Leveraging Deep Learning for Pothole Detection and Road Quality Assessment" in International Journal of Advanced Trends in Engineering and Management (IJATEM) Vol. 03 Issue 12, pp. 17-24 ,Dec 2024 DOI: https://doi.org/10.59544/ebtl6594/ijatemv03i12p2

- Published a paper "Intelligent Traffic Violation Detection and Notification System Using Deep Learning" in International Journal of Advanced Trends in Engineering and Management (IJATEM) Vol. 03 Issue 12, pp. 25-33, Dec 2024 DOI: https://doi.org/10.59544/tscu2883/ijatemv03i12p3

- Published a paper "An Improved Similarity Matching model for Content based image retrieval" published in the International Journal on Smart Sensing and Intelligent Systems with Vol. No. 18, Issue No.1, impact factor 0.4 and year of publication 2025 published by International Journal on Smart Sensing and Intelligent Systems with DOI: https://doi.org/10.2478/ijssis-2025-0031.

Achievements / Awards / Recognitions

- Organizing committee for the Conference IESEE-2022 conducted by Department of CSE
- Organized 5 days FDP on "Android Mobile App Development" 22nd June to 27th June 2021
- Received award for achieving 100% result in Software Testing.

- Received award for achieving 97% result in Big Data Analytics.

- Completed NPTEL online certification course on Data Base Management system for Jul-Sep 2025.
- Completed NPTEL online certification course on Cloud Computing for Jul-Oct 2025.
- Completed NPTEL online certification course on Research Methodology for Jan-Mar 2025.
- Done a certification on Automation Pro I by Workato Automation institute in the month of June 2024.
- Done a certification on "Artificial Intelligence" by Infosys spring board, in the month of March 2024.
- Done a certification on "Python Programming" by Infosys spring board, in the month of Feb 2024.
- Done a certification on "Introduction to Data Science" by Infosys spring board, in the month of August 2024.
- Done a certification on "Ethical AI" by Infosys spring board, in the month of Nov 2023.

- Attended a training program on "Chatgpt & Ai Program" organised by Excelr from 8th to 26th May 2023
- Done a certification on "Introduction to Artificial Intelligence" by Infosys spring board, in the month of Nov 2023.

- Completed 5 day Training program on "Artificial intelligence-N Dimensions" by Poornima College -2022
- Certified Trainer for "Artificial Intelligence with Machine Learning" in Java by Oracle Academy-2021
- Certified award of course completion in Database Foundations in Java by Oracle Academy-2021
- Completed NPTEL online certification course on "Python for Data Science" with an Elite score-2021
- Completed NPTEL online certification course on "Data Mining"-2020
- Completed Coursera on "Developing AI Applications on Azure"-2021
- Completed "Step into Robotic Process Automation" by GUVI -2020