

Dr. K. S. Leelavathi
Assistant Professor
Department of Computer Technology
NGM College, Pollachi
Mobile: 9788341395
Mail-id:leelakarathi@gmail.com



Permanent Address:

2/100, Kaniyalampalayam,
Negamam (via),
Pollachi - 642001.

I am a Professor in Computer Technology with over 20 years of experience in teaching, research, and academic administration. My expertise includes computer science fundamentals, emerging technologies, curriculum development, and student mentoring. I am passionate about fostering innovation, critical thinking, and research among students. I have actively contributed to academic excellence through research publications, conference presentations, and faculty development activities. I am dedicated to creating a collaborative learning environment that prepares students for successful careers and lifelong learning.

EDUCATIONAL BACKGROUND

Degree / Qualification	Institution / University	Month & Year of Completion	Percentage / Class
Ph.D (Computer Science)	NGM College, Bharathiar University.	October 2024	Commended
CBSE NET (National Eligibility Test)	CBSE , Government of India	July 2018	Qualified
TNSET (Tamil Nadu State Level Eligibility Test)	Mother Teresa University, Kodaikanal.	June 2018	Qualified
M. Phil (Computer Science)	Bharathiar University.	May 2010	Commended
M. Sc (Computer Science)	Bharathiar University.	April 2006	First
B. Sc (Computer Science)	Karpagam College of Arts and Science, Coimbatore.	April 2003	Second
HSC	Lourdes Matric. HSS, Pollachi.	April 2000	First
SSLC	Swamy Chidbhavanandha Matric. School ,Pollachi.	March 1998	First

PROFESSIONAL EXPERIENCE

S.No	Institution	Designation	Duration	No. of. Years Experience
1	Swamy Chidbhavanandha Matric. School , Pollachi.	Teacher	June 2003 to April 2006	3 years
2	Sree Ramu College of Arts and Science, Pollachi	Assistant Professor	June 2006 to April 2007	1 year
3	Rathinam College of Arts and Science, Coimbatore	Assistant Professor & HOD(2009 – 13)	June 2007 to April 2013	6 years
4	NGM College, Pollachi	Assistant professor	June 2013 to till date	13 years

TECHNICAL SKILLS

- C, C++, Java, Python, JavaScript,
- MYSQL
- Linux, Windows, Unix
- Software Development Life Cycle (SDLC), Agile methodologies, software testing, design patterns
- HTML5, CSS3, JavaScript, PHP
- Canvas, Google Classroom, Microsoft Teams , Microsoft Office Suite (Word, Excel, PowerPoint) , Google Workspace

ACADEMIC & RESEARCH SKILLS

- Curriculum design and outcome-based education (OBE)
- Research methodology
- Journal and Conference Paper publication
- Project supervision
- Grant proposal writing
- Outcome Assessment and Accreditation Documentation NAAC/ISO)
- Mentoring student innovation, Hackathons, and projects

SPECIALIZATION

Data Mining, Machine Learning

RESEARCH PROJECT

- Crop Yield Prediction System for Indian Agriculture using a combination of Machine Learning And Deep Learning Frameworks – OCT 2024.

AWARDS AND ACHIEVEMENTS

- Awarded as “Best Teacher Award – 2013” by Akshaya Institute of Management Studies, Coimbatore.
- Produced Bharathiar University Three Rank Holder (VI, IX, X) in 2008 - 2011 batch (B. Sc CT).
- Produced Bharathiar University First Rank holder (Gold Medalist) in 2009 – 12 batch (B.Sc CT).

MOOC CERTIFICATION COURSE

- Completed NPTEL Online Certification Course “**Software Testing**”, Funded by MoE, Govt. of India.
- Completed SWAYAM Online Certification Course “**Computer Networks**”, Funded by Govt. of India.
- Completed NPTEL Online Certification Course “**Python for Data Science**”, Funded by MoE, Govt. of India.
- Completed NPTEL Online Certification Course “**Software Testing**”, Funded by MoE, Govt. of India.
- Completed online course Java Tutorial for Complete beginners in www.udemy.com.

JOURNAL PUBLICATIONS

- “What is Social Networking?” In “Readers Shelf Magazine”.
- Published a paper titled “Development of Crop Yield Prediction Model in Agriculture Using Improved Extreme Learning Machine”, European Chemical Bulletin (Scopus Indexed Journal – July 2023) Vol. 12 Issue No 06, September 2023. ISSN: 2547-4597

- Published a paper titled “An EWOA – WTDCNN Model: Effective Whale Optimization Algorithm Incorporating with weight – Tuned Deep Convolutional Neural Network for Forecasting Indian crop yield Process”, Tuijin/ Jishu Journal of Propulsion Technology (Scopus Indexed Journal – October 2023) Vol. 44 Issue No 03, October 2023. ISSN: 1001 – 4055.
- Published a paper titled “Crop yield prediction using effective deep learning and dimensionality reduction approaches for Indian regional crops ”, e-Prime - Advances in Electrical Engineering, Electronics and Energy (Scopus Indexed Journal –2024).
- Published a paper titled “ A Novel Crop Yield Prediction Using Deep Learning and Dimensionality Reduction ”, International Research Journal of Multidisciplinary Scope (IRJMS) (Scopus Indexed Journal – 2024) 5(1):101-112 DOI: 10.47857/irjms.2024.v05i01.0158
- Published a paper titled “Analysis of South Indian Agriculture production data using Machine Learning Classification Techniques”, Journal of the Maharaja Sayajirao University of Baroda, vol. 55, no. 1(XI), pp.17-21, Sept. 2021.ISSN: 0025 – 0422 (UGC CARE Group I Journal)
- Published a paper titled “Analysis of Rice and Wheat Production in India based on Season using Machine Learning Classification Techniques”, in Journal of the Asiatic Society of Mumbai, Vol. XCVI, No. 4, pp.170-174, March, 2023..ISSN: 0972 – 0766 (UGC CARE Group I Journal)
- Published a paper titled “A study and Analysis of Rice and Wheat Production in India Based on Season using Machine Learning Classification Algorithms”, in International Journal of Research in Computer Applications and Robotics(IJRCAR), Vol.11,Issue 3, pp.1-6, March, 2023. ISSN: 2320 – 7345. Doi: <https://doi.org/10.5281/zenodo.7718668>
- Published a paper titled “Machine Learning In Agriculture: Enhancing Efficiency And Productivity In Crop Yield Prediction”, in IAPQR Transactions, Vol. 50, Issue 01, No. 06 : 2025 ISSN 0970-0102 (UGC CARE Group I Journal)

NATIONAL / INTERNATIONAL CONFERENCE

- Presented a paper entitled “4G Wireless Technology in Mobile Computing” in a National Conference on Data Mining & Warehousing at VLB Janakiammal College of Arts & Science on 30.01.2010.

- Presented a Paper on “Computer Application and Recent Trends in Digital Animation Industry” in an International Conference at P. S. G. R. Krishnammal College for women on 10.01.2011.
- Participated in the National Level Symposium on "Recent Trends in Information Technology (NSRTIT-2014)" held on 8 March 2014.
- Presented the paper titled "Green Computing – A Review on E-Waste" at the National Conference on Recent Advancement in Information and Computer Technology on 20 March 2015.
- Presented the paper titled "Security Issues and Attacks in Underwater Wireless Sensor Network" at the International Conference on Advances in Information Technology and Networking (ICATN-16) on 11 February 2016.
- Presented the paper titled "The Past, Present and Future of Android Development" at the National Conference on Advanced Computing and Communication Technologies on 22 February 2016.
- Presented the paper titled "A Study on ETL Tools in Data Mining" at the National Conference on Recent Advancement in Information and Computer Technology on 23 February 2017.
- Participated in the National Conference on "Green Computing" organized by N.G.M. College on 22 September 2017.
- Presented the paper titled "Analysis of Rice and Wheat Production in India Based on Season Using Machine Learning Classification Techniques" at the International Conference on Emerging Trends in Science and Technology (ETIST-2021) on 27 October 2021.
- Presented the paper titled "An Improved Extreme Learning Machine Algorithm for Crop Yield Prediction" at the International Conference on Recent Trends in Computer Science Engineering and Information Technology (ICRTCEI-2022) on 25 November 2022.

WORKSHOPS

- Attended a one day orientation Programme on “National Library and Information Services infrastructure for Scholarly Content (N-List) at Bharathiar University on 05.08.2011.

- Participated in a two-day workshop on "Various Elements Pursued in Teaching for New College Teachers" conducted by the Academy for Professional Development at N.G.M. College, Pollachi, on 5–6 September 2013.
- Participated in a one-day workshop on "Embedded Systems in Robotics" organized by the Department of Computer Technology, N.G.M. College, Pollachi, on 1 October 2013.
- Participated in a one-day workshop on "Cloud Application Development on PHP" organized by the Departments of Information Technology and Computer Technology in association with PORAS Technologies India Pvt. Ltd. on 28 January 2014.
- Participated in the UGC Sponsored One-Day Workshop on MATLAB conducted by Government Arts College, Udumalpet, on 12 January 2015.
- Participated in a two-day workshop on "Android Application Development" organized by the Department of Computer Technology, N.G.M. College, Pollachi, on 3–4 October 2016.
- Participated in a two-day workshop on "Big Data Analytics" organized by the Department of Computer Technology and Information Technology, N.G.M. College, on 9–10 March 2017.
- Participated in a two-day workshop on "Soft Computing Techniques in Information Retrieval" conducted by Dr. Mahalingam College of Engineering and Technology, Pollachi, on 14–15 July 2017.
- Participated in a one-day workshop on "Mentoring the Mentors & Outcome Based Education (OBE)" conducted by SIIMS at N.G.M. College, Pollachi, on 26 February 2018.
- Participated in a workshop on "Python Programming" organized by the Department of Computer Technology, N.G.M. College, Pollachi, on 28 February 2019.
- Participated in a National Level Workshop on "Machine Learning" organized by Sri G.V.G. Visalakshi College for Women in association with Robosol and AAKAAR IIT Bombay on 18–19 September 2019.
- Participated in a five-day workshop on "Invisible Skills" organized by Rathinam Group of Institutions, Coimbatore, during 12–16 September 2022.
- Participated in a workshop on "Augmented Reality and Virtual Reality" organized by Sri G.V.G. Visalakshi College for Women on 23 November 2022.
- Organized and Participated in a one-day workshop on "Digital Marketing for Entrepreneurial Success and IPR" on 20 February 2023.

- Participated in a two-day workshop on "Implementation of Outcome Based Education: Opportunities and Challenges – Learning Outcome Based Curriculum Framework" during 21–22 March 2023.

FACULTY DEVELOPMENT PROGRAMMES (FDPs)

- Participated in a Faculty Development Programme on "Recent Trends in Higher Education in Science and Humanities to Rural Students" held from 12–14 June 2019.
- Attended an online FDP on "Development of Higher Education in India – An Overview" on 9 April 2020.
- Attended a two-day FDP on "Virtual Teaching" organized by Coimbatore Institute of Technology on 20–21 April 2020.
- Participated in an International FDP on "Develop the Ability to Write Research Proposal" on 24 April 2020.
- Attended an FDP on "Virtual Teaching" on 28 April 2020.
- Organized a four-day National Level Online FDP on "Impact of AI in Education and Industry Post COVID-19" during 11–14 May 2020.
- Attended a three-day FDP on "Introduction to Structural Equation Modeling for Social Science Research" during 12–14 May 2020.
- Completed a two-day Educator Development Programme (EDP) on Service Continuous Professional Development Programme – Phase I during 26–27 February 2021.
- Completed a 40-hour Online FDP on "Data Science for All" organized by the Electronics and ICT Academy, NIT Warangal, during 12–23 April 2021.
- Participated in a seven-day International FDP on "Research Perspectives on New Age Technologies" during 3–10 August 2021.
- Participated in a seven-day FDP on "Application Perspectives in IoT" during 20–27 September 2021.
- Participated in a one-week Short-Term Training Programme on "Latest Trends in Information Technology" during 4–11 October 2021.
- Participated in a one-week Faculty Development Programme on "Current Trends in Information Technology" during 2–9 February 2022.
- On 12th April 2021 – 23rd April 2021, attended 40 hours Online Faculty Development Programme on "Data Science for All", organized by Electronics and ICT Academics at

NIT Warangal, IIITDM Jabalpur , IIT Kanpur, NIT Patna, IIT Guwahati, MNIT Jaipur and IIT Roorkee .

- On 3rd August 2021 – 10th August 2021, attended 7 days International Level Online Faculty Development Programme on “Research Perspectives on New Age Technologies”, organized by Department of Computer Science (SF), NGM College, Pollachi
- From 20.09.2021 To 27.09.2021, Participated in the 7 Days Online and Offline FDP on “Application Perspectives in IOT”, Organized by Department Of Computer Science(SF), Nallamuthu Gounder Mahalingam College Pollachi.
- From 04.10.2021 to 11.10.2021, participated in one week short term Training Program on “Latest Trends in Information Technology”, Organized by Department Of Computer Applications with IQAC, Nallamuthu Gounder Mahalingam College Pollachi.
- On 02.02.2022 to 09.02.2022 , participated in one week Faculty Development programme on “ Current Trends in Information Technology”, jointly organized by School of Computational Sciences and CANNY – Consortium of Colleges, Nehru Arts and Science College, Coimbatore.
- On 25.3.2022 , participated in one day Faculty Development programme on “ Public Financial Management System”, jointly organized by PG & research Department of Commerce and Department of Commerce (Self – Financing) , NGM College, Pollachi
- Participated in a one-day Faculty Development Programme on "Public Financial Management System" on 25 March 2022.
- Participated in a Faculty Development Programme on "Selection of Scholarly Journals & Web Visibility – Strategies and Techniques" during 20–28 February 2023.
- Participated in a four-day Faculty Development Programme conducted by Ernst & Young during 10–13 April 2023.
- Completed a 13-day Faculty Development Programme on "Machine Learning" organized by Electronics and ICT Academy, IIT Roorkee during 13–30 April 2023.
- Participated in an eight-day Faculty Development Programme on "AI Tools for Teachers" during 7–17 August 2023.

SEMINARS / WEBINARS

- Presented a Paper entitled “Data Mining” in a National Level Seminar on Convergence of Database and Communication Technology at Sree Ramu college of Arts & Science on 13.01.2012.
- Participated in the National Seminar on "Empowering the Youth to Enrich Mankind" organized by the Human Excellence Department, N.G.M. College, Pollachi, on 29 January 2016.
- Participated in a seminar on "Cyber Security Awareness" organized by the Department of Computer Science, N.G.M. College, Pollachi, on 8 January 2019.
- Attended the webinar on "ICT Enabled Higher Education in India: Challenges and Opportunities."
- Attended the webinar on "An Effective Research Paper Writing Skill."
- Attended the webinar on "Virtual Reality."
- Attended the webinar on "Assessing Research Output and Its Enhancement."
- Attended the National Technology Day webinar on "Digital Transformation under the New Normal."
- Attended the webinar on "Walk and Knock with Data Science." Attended the International webinar on "Evolution of Coronavirus and Its Prevention."
- Organized and Participated in the International Seminar on "Succeeding in the ERA NCDPS."
- Organized and Participated in the International Seminar on "Information Security."
- Organized a National Level Seminar on "Advance Planning and Scheduling."
- Participated in the National Webinar on "Introduction to IPR and Patent Filing Procedures."
- Participated in the National Webinar on "Intellectual Property Rights and Research Ethics."
- Participated in the National Seminar on "Quality Enhancement Initiative Through Innovative Practices after COVID-19 Era."
- Participated in the National Virtual Seminar on "Transforming Quality of Teaching by Adopting and Innovating ICT Tools & Techniques – A Key Focus Area of NEP 2020."
- On 22.10.2021, participated in a National Webinar on “Introduction to IPR and patent Filling Procedures”, Organized by Department Of Computer Applications, Nallamuthu

Gounder Mahalingam College Pollachi. (Resource person: Mrs. B. Mahalakshmi, Assistant Controller of Patents & Designs, patent Office, Chennai.)

- On 15.11.2021, participated in a one day National Level Webinar on “Intellectual property rights and research Ethics”, Organized by Department of Computer Technology & IQAC, Nallamuthu Gounder Mahalingam College Pollachi.
- On 12.03.2022, participated in one day National Seminar on “Quality Enhancement Initiative Through Innovative practices after Covid 19 Era”, jointly organized by Internal Quality Assurance Cell of G H RAISONI INSTITUTE OF ENGINEERING AND TECHNOLOGY , WAGHOLI, PUNE in Association with NAAC , Bangalore
- Participated in the NAAC Sponsored National Seminar on "Innovative Strategies and Practices in Teaching, Learning and Evaluation Process for Arts and Science Colleges towards NEP-2022."
- Participated in the Professional Development Programme on "What Makes a Good Teacher a Great Teacher."
- Participated in the ICSSR Sponsored Two-Day National Level Seminar on "Blended Mode of Teaching and Learning for Teachers Community" during 30–31 January 2023.

BOOK CHAPTERS PUBLISHED

- Published a book chapter titled "An Overview of Augmented Reality" in the book "Transformation of Teaching-Learning Strategies in the Digital Era", First Edition, September 2022, ISBN: 978-93-95422-04-8.

SEMINAR ORGANIZED

- On 25.8.2021, Organized and participated in one day Online International Seminar on “**Succeeding in the ERA NCDPS**” Organized by Dept. of CT, NGM College, Pollachi. (Mr. Muthukumar Purushothaman, Software Development Manager, PSI Incontrol SDN BHD, Selangor, Malaysia.)
- On 03.9.2021, organized and participated in one day Online International Seminar on “**Information Security**” Organized by Dept. of CT, NGM College, Pollachi. (Mr. Pradeep Prabhakaran, Associate Consultant, HCL, Bangalore.)
- On 8.10.2021, organized National Level Seminar on “Advance Planning and Scheduling” and Resource Person is Mr. Yagavarnan , Tec Project Manager ,Pentagon Runway Pvt. Ltd. Colombo, SriLanka.

RESOURCE PERSON

- On 13.10.2021, Acted as a Speaker in 40th NGM Weekly Academic Forum Meeting conducted by IQAC of NGMC and gave a speech on the topic “Touchless Technology”.
- On 4.3.2022 Acted as a JUDGE for Debugging (Technical Symposium – Minerva’22) event organized by PG Department of Computer Science in Commemoration of National Science Day.

PROFESSIONAL ACTIVITIES

1. Enrolled students in various online courses such as Swayam, NPTEL, udemy etc.
2. Recognized as M. Phil Supervisor
3. Department Level IQAC co – coordinator
4. Appointed as ISO internal auditor by our college ISO cell
5. Member of Board of studies from the year 2013.
6. Organized Awareness rally about Drug Abuse & Illicit Trafficking.
7. Student counselor during Parents Teachers Meet.
8. Organising member of Department Guest Lectures, Workshops and Extension Activities.
9. Co – ordinating Team member in wrobe committee, registration committee and certificate distribution Committee in graduation day ceremonies.
10. Question paper setter and External examiner for Practicals at various colleges.
11. Took students to Industrial Visits
12. Motivating Students for better placements and higher studies.

Personal Details

Name	:	Dr.K. S. Leelavathi
Gender	:	Female
Date of Birth	:	12. 05.1983
Marital Status	:	Married
Community	:	BC
Nationality & Religion	:	Indian & Hindu
Father’s Name	:	K. Subramaniam
Mother’s Name	:	S. Bhuvaneswari

Teaching experience : 20 Years
Research Area : Data mining

Declaration

I do hereby declare that the particulars of information and facts stated herein above are true, correct and complete to the best of my knowledge and belief.

Place: Pollachi

Date: 16.07.2026

(K. S. Leelavathi)