

CURRICULUM VITAE

S. DILIP KUMAR

1/1a, Semalai Chetti Street

Kottur Malayandipattinam

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Research Profiles

- **Ph.D.:** Pursuing (Computer Science)
- **Google Scholar ID:** lxNq9QcAAAAJ
- **ORCID iD:** 0009-0008-9308-9804
- **VIDWAN ID:** 239741



PROFESSIONAL PROFILE

Assistant Professor with over 15 years of teaching experience in Computer Applications and Computer Science. Currently pursuing a Ph.D. in Computer Science with research interests in Artificial Intelligence, Deep Learning, Machine Learning, and Computer Vision. Experienced in teaching, research, academic administration, student mentoring, and curriculum development, with publications in reputed journals and presentations at national and international conferences.

ACADEMIC QUALIFICATIONS

Qualification	Institution	University / Board	Year	Status / Percentage
Ph.D. (Computer Science)	Government Arts and Science College, Kangeyam	Bharathiar University	Pursuing	Doctoral Research
M.Phil. (Computer)	Vidyasagar College of Arts and Science, Udumalpet	Bharathiar University	2015	Recommended

Master of Computer	NGM College (Autonomous), Pollachi	Bharathiar University	2009	69%
B.Sc. Computer Science	NGM College (Autonomous), Pollachi	Bharathiar University	2006	65%
HSC	Palaniammal Higher Secondary School, V. Kaliapuram	State Board	2003	70.50%
SSLC	Government High School, S. Chittur	State Board	2001	77.80%

AREAS OF SPECIALIZATION

- Artificial Intelligence
- Machine Learning
- Deep Learning
- Web Technologies
- Programming Languages
- Computer Networks

PROFESSIONAL EXPERIENCE

Teaching Experience: 15+ Years

Designation	Institution	Period	Key Responsibilities / Achievements
Assistant Professor Dept. of Computer Applications	NGM College (Autonomous) Pollachi	Aug 2013 – Present	Teaching UG courses, handling labs & projects, mentoring students, OBE-based course preparation, organizing seminars/workshops, curriculum & NAAC/IQAC activities, research support.
Assistant Professor Dept. of Computer Science	Rathinam College of Arts and Science, Coimbatore	Aug 2011 – Mar 2013	Taught UG courses, conducted theory & practical classes, guided projects, prepared course materials, achieved multiple 100% University results.

Assistant Professor Dept. of Computer Science	K.S.G. College of Arts and Science, Coimbatore	Dec 2010 – Apr 2011	Taught UG Computer Science courses, conducted labs, prepared lesson plans, mentored students.
Assistant Professor Dept. of Computer Science	Sree Ramu College of Arts and Science, Pollachi	Aug 2009 – Apr 2010	Delivered lectures, conducted practical sessions, guided student projects, handled assessments and university examination work.

RESEARCH SUMMARY

- Teaching Experience: 15+ Years
- Ph.D.: Pursuing (Computer Science)
- Journal Publications: 8
- Scopus Indexed Publications: 2
- Peer-Reviewed Publications: 3
- UGC Care / UGC Listed Publications: 3
- Book Chapters: 4
- Conference Publications: 6+
- Guest Lectures Delivered: 2
- Faculty Development Programmes: 15+
- Workshops, Seminars & Webinars: 60+

JOURNAL PUBLICATIONS

Year	Title	Journal / Indexing	Volume / Issue
2025	A Robust RMSFED–ASPP Enhanced YOLOv8 Framework for Detecting Poultry Abnormalities	IJERT (Peer- Reviewed International Journal)	Vol. 14, Issue 12

2025	An Edge-Deployable YOLOv8 System for Real-Time Detection of Health and Behavioural Abnormalities in Poultry Farming	Academic Research Journal of Science and Technology (Peer-Reviewed)	Vol. 2, Issue 3
2025	Multi-Stage YOLO Frameworks for Simultaneous Detection of Avian Diseases and Behavioural Anomalies	Academic Research Journal of Science and Technology (Peer-Reviewed)	Vol. 1, Issue 10
2024	Deep Learning Approach in Detecting Marek's Disease in Poultry Chicken Using YOLOv10 with Generative Adversarial	African Journal of Biological Sciences (Scopus Indexed)	Vol. 6, Issue 15
2024	Evaluating YOLOv8 and Faster R-CNN for Poultry Leg-Weak Detection in Automated Health Monitoring	Nanotechnology Perceptions (Scopus Indexed)	Vol. 20, Issue 4
2024	Early Disease Detection in Poultry: Potential of Clinical Symptom-Monitoring Technologies	IJIRT (UGC Recognized)	Vol. 11, Issue 2
2024	YOLO-Based Model for Detection of Broiler Pathological Diseases	Adalya Journal (UGC Care)	Vol. 13, Issue 3
2023	Detection and Extraction of Image Features using HOG and SURF	Journal of the Maharaja Sayajirao University of Baroda (UGC Journal)	Vol. 57, Issue 1
2021	Secure Data Aggregation in Wireless Sensor Networks: A Review	IJRSET	—
2018	Multiple Imputation for Missing Data Using Factored Regression Model with the Implementation of Current Population	IJSRCSEIT	—
2014	An Analysis of Symmetric Cryptography Algorithms	IJSRD	

BOOK CHAPTERS

Year	Book Title	Chapter Title	Publisher	ISBN	Pages
2025	<i>The Future of Digitalization: Crafting Exceptional User Experiences in Biometric Contactless Payment Systems</i>	The Future of Digitalization: Crafting Exceptional User Experiences in Biometric Contactless Payment Systems	Wordsswigggle Publications	978-93-49882-37-9	32–39
2025	<i>Harnessing Artificial Intelligence, Innovation and Technology: A Pathway to Economic Transformation and Sustainable Development in India</i>	AI-Driven Early Detection of Poultry Diseases for Preventive Public Health and Agribusiness Optimization: A YOLOv10-GAN Framework	Shanlax Publications	978-93-94004-62-7	30–35
2025	<i>Rise of Entrepreneurship: Exploring Innovation, Inclusion and Partnerships</i>	Evolving Entrepreneurial Support: Incubation and Acceleration for Creative Industries in Coimbatore	Wordsswigggle Publications	978-93-49882-56-0	—
2025	<i>Rise of Entrepreneurship: Exploring Innovation, Inclusion and Partnerships</i>	A Filtering-Based Visual Analytics Model for Poultry Disease Identification	Wordsswigggle Publications	978-93-49882-56-0	241–246

CONFERENCE PRESENTATIONS

International Conferences

S. No.	Year	Paper Title / Theme	Conference / Institution	Date
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1	2025	Deep Learning for Demand Forecasting in Supply Chain Management: A Comparative Study of LSTM and Transformer Models	International Conference	2025
2	2025	AI-Powered Disease Monitoring in Poultry Farming	International Conference	2025
3	2024	Precision Poultry Health Monitoring: Leveraging Recurrent Neural Networks for Early Detection and Classification of Nutritional	International Conference	2024
4	2024	Unveiling the Future: Deep Learning Approaches for Disease Prediction Through Image Data Analysis	International Conference	2024
5	2021	Secure Data Aggregation in Wireless Sensor Networks: A Review	International Conference on Emerging Trends in Science, Parvathy's Arts and Science College, Dindigul	15–16 Sep 2021
6	2021	An Intrinsic Study on Artificial Neural Networks and Its Issues	International Conference on Computing and Intelligent Systems (ICCIS'21), Sri Krishna Adithya College of Arts	25–26 Aug 2021
7	2019	Research Paper Presentation	International Conference organized by SIIMS	15-Mar-19
8	2012	DNA Computing	Bharathiar University, Coimbatore	19–21 Jan 2012

National Conferences / Seminars

S. No.	Year	Title / Theme	Event Type	Institution	Date
1	2023	G-20's Impact on Educational Framework: A Comprehensive Overview	National Conference	—	2023

2	2023	Unlocking the Potential of Deep Learning for Poultry Disease Diagnosis: Innovations and Opportunities for the Future	National Conference	—	2023
3	2022	Innovative Strategies & Practices in Teaching, Learning and Evaluation Process for Arts & Science Colleges towards New Education Policy 2022	National Seminar	NGM College, Pollachi	03–04 Nov 2022
4	2017	Green Computing	National Conference	NGM College, Pollachi	22-Sep-17
5	2016	Empowering the Youth to Enrich Mankind	National Seminar	NGM College, Pollachi	29-Jan-16
6	2012	Intelligent Based Nano–Robotic Machines for Medical Surgery and Treatment	National Conference	Dr. SNS Rajalakshmi College of Arts and Science	04-Oct-12
7	2012	Bioinformatics	National Conference	Sree Ramu College of Arts & Science	02-Apr-12
8	2012	Nano Computing	National Conference	Angappa College of Arts and Science	03-Feb-12

FACULTY DEVELOPMENT PROGRAMMES (FDPs)

S. No.	Year	Faculty Development Programme	Duration / Date	Key Focus
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1	2024	Adapting to AI-Driven Industry	09–13 Sep 2024	Artificial Intelligence, AI-driven teaching, emerging software tools, industry-oriented technologies
2	2023	Emerging Trends & Challenges in Commerce and Management Education	19–26 Sep 2023	Interdisciplinary teaching, educational innovation, technology-enabled learning
3	2023	One Week FDP on Cloud Infrastructure (AWS)	21–25 Aug 2023	Amazon Web Services, cloud architecture, deployment strategies, cloud application development
4	2022	Data Analytics and Visualization Using Tableau	14–18 Nov 2022	Business intelligence, dashboard creation, Tableau, data visualization
5	2022	Advanced Computing Technologies	25–31 Jul 2022	Artificial Intelligence, Machine Learning, Cloud Computing, Data Science
6	2022	Current Trends in Information Technologies	02–09 Feb 2022	Information Technology, AI, Cyber Security, Software Engineering
7	2021	Application Perspectives in Internet of Things (IoT)	20–27 Sep 2021	IoT architecture, smart devices, industrial IoT, intelligent sensing
8	2021	Teaching and Learning in the Digital Era	16–20 Aug 2021	Digital pedagogy, online teaching, learner engagement, assessment strategies
9	2021	New Education Policy (NEP) of India	25-Mar-21	NEP implementation, curriculum reforms, multidisciplinary education, Outcome-Based Education
10	2020	Innovation in Information Technology – Post COVID-19	21–27 May 2020	Digital transformation, remote learning, emerging IT innovations
11	2020	The Art of Teaching	12-May-20	Teaching methodologies, classroom communication, learner motivation
12	2020	Examination in the Wake of COVID-19	08-May-20	Online examinations, digital evaluation, academic continuity

13	2020	Engendering the Next Generation Educators	23–28 Apr 2020	Learner-centered pedagogy, curriculum innovation, educational leadership
14	2020	Recent Trends in Artificial Intelligence and Impact on Teaching Professionals	22–24 Apr 2020	AI in education, intelligent tutoring systems, automation
15	2019	Recent Trends in Higher Education in Science and Humanities	12–14 Jun 2019	Higher education reforms, innovative teaching, academic quality enhancement
16	2009	Challenges in the Current Educational Scenario	29-Aug-09	Orientation for young faculty, teaching practices, classroom management

WORKSHOPS ATTENDED

S. No.	Year	Workshop Title	Duration / Date	Institution / Organizer
1	2024	Virtual Lab – A Learner Perspective	13-Mar-24	—
2	2021	International Workshop on Internet of Robotic Things (IoRT)	31 Jul – 02 Aug 2021	NGM College
3	2020	Hands-on Training on Technology Assisted Teaching Tools	29–30 May 2020	CIT – Teaching Learning Centre (CIT-TLC)
4	2020	State-level Workshop on Data Mining Using R Tool	09–10 Jan 2020	NGM College
5	2018	E-Content Development	28-Sep-18	NGM College
6	2018	E-Content Development	11-Apr-18	NGM College

7	2017	Big Data Analytics	09–10 Mar 2017	NGM College
8	2016	Android Application Development	04–05 Mar 2016	NGM College
9	2015	AngularJS	18-Dec-15	Dr. Mahalingam College of Engineering and
10	2015	Web Application Development Using .NET	11-Jul-15	Dr. Mahalingam College of Engineering and
11	2013	Various Elements Pursued in Teaching for New College Teachers	05–06 Sep 2013	NGM College
12	2012	Research Issues in Digital Image Processing	25–26 Sep 2012	Dr. NGP College of Arts and Science
13	2010	Hardware and Networking	18-Feb-10	Sree Ramu College of Arts and Science
14	—	Call Center Basics	One Day	NGM College, Pollachi

SEMINARS ATTENDED

S. No.	Year	Seminar / Colloquium Title	Date	Institution / Organizer
1	2023	Impact of New Education Policy	15-Mar-23	NGM College (Autonomous), Pollachi
2	2023	Impact of Digital Learning in the Education Sector – A Pandemic Perspective	08–09 Feb 2023	NGM College (Autonomous), Pollachi
3	2022	Innovative Strategies and Practices in Teaching, Learning and Evaluation Process for Arts and Science Colleges Towards NEP 2022	03–04 Nov 2022	NGM College (Autonomous), Pollachi

4	2021	Intellectual Property Rights (IPRs) & Research Ethics	15-Nov-21	Department of Computer Technology & IQAC, NGM College
5	2019	Applying Modern Deep Learning Techniques to Natural Language Processing	19-Dec-19	NGM College (Autonomous), Pollachi
6	2019	Cyber Security Awareness	08-Jan-19	NGM College (Autonomous), Pollachi
7	2018	Career Openings in Networking	09-Feb-18	NGM College (Autonomous), Pollachi
8	2017	Contemporary Trends in Big Data Analytics	24-Aug-17	NGM College (Autonomous), Pollachi
9	2016	Empowering the Youth to Enrich Mankind	29-Jan-16	NGM College (Autonomous), Pollachi

WEBINARS ATTENDED

Participated in numerous national and international webinars covering emerging technologies and educational innovations, including:

- Real World of IT
- Enhancing Coding Skills with Python
- Lead with Emotional Intelligence During COVID-19
- Hidden Threats of Mobile Usage
- Healthy Lifestyle Practices
- Survival of the Fittest – Post COVID-19
- Blockchain Networks in IoT Applications
- Guidance and Counselling for Well-being
- Appraisal of Learning Outcomes in Outcome-Based Education (OBE)
- NAAC Assessment Procedures
- Introduction to Data Visualization and Tools
- Machine Learning
- Future of DevOps

- Selenium Framework for Automation Testing
- Cyber Security in the Middle East
- Environmental Challenges – Post COVID Era

PROFESSIONAL CERTIFICATIONS

Coursera Certifications

Successfully completed online certification courses in:

- University Teaching
- Linear Regression with Python
- Introduction to Generative AI
- Teaching Character and Creating Positive Classrooms

Additional Certifications

- Computer Hardware Maintenance and Networking – Acenet Technologies.
- ASP.NET Certification – SSI Education.
- Microsoft Copilot – Skill Development Programme.
- Artificial Intelligence – Online Course.
- Technology Assisted Teaching Tools – Hands-on Training Programme..

ACADEMIC AND ADMINISTRATIVE RESPONSIBILITIES

S. No.	Position / Responsibility	Department / Organization	Duration	Major Responsibilities
1	Placement Coordinator	Department of Computer Applications, NGM College (Autonomous), Pollachi	Aug 2013 – Present	Coordinate placement drives, campus recruitment, career guidance, aptitude and technical training, mock interviews, resume preparation, and industry interactions.
2	NSS Programme Officer – Unit III	National Service Scheme (NSS), NGM College (Autonomous), Pollachi	2024 – Present	Plan and coordinate NSS activities, special camps, community outreach programmes, Swachh Bharat, blood donation, tree plantation, road safety, village adoption, documentation, and volunteer development.

3	Department ERP Coordinator	Department of Computer Applications, NGM College (Autonomous), Pollachi	Aug 2013 – Present	Coordinate ERP implementation, maintain student records, attendance, internal assessments, and support faculty in ERP operations.
4	Department UMIS Coordinator	Department of Computer Applications, NGM College (Autonomous), Pollachi	Aug 2013 – Present	Manage University Management Information System (UMIS), maintain academic records, and coordinate university data submission.
5	Board of Studies (BoS) Member	Department of Computer Applications, NGM College (Autonomous), Pollachi	Aug 2013 – Present	Participate in curriculum design, syllabus revision, Outcome-Based Education (OBE), NEP implementation, and introduction of new courses.
6	Department Website Committee Member	Department of Computer Applications, NGM College (Autonomous), Pollachi	Aug 2013 – Present	Maintain departmental website and publish academic achievements, events, placements, and student accomplishments.
7	NAAC Criterion V Coordinator (Department Level)	Department of Computer Applications	Aug 2013 – Present	Coordinate documentation related to Student Support and Progression, placements, scholarships, and student achievements.
8	NAAC SSR Preparation Committee Member (IQAC)	NGM College (Autonomous), Pollachi	2024 – Present	Contribute to Self-Study Report (SSR) preparation, institutional documentation, data verification, and accreditation activities.
9	Bharathiar University Annual Report Committee Member	NGM College (Autonomous), Pollachi	Aug 2013 – Present	Compile, verify, and prepare institutional data and annual reports for Bharathiar University.
10	Tamil Pudhalvan Scheme Coordinator	Student Welfare Cell, NGM College (Autonomous), Pollachi	Present	Verify student eligibility, coordinate enrolment, maintain beneficiary records, and monitor scheme implementation.

11	Pudhumai Pen Scheme Coordinator	Student Welfare Cell, NGM College (Autonomous), Pollachi	Present	Create awareness, facilitate enrolment, verify documentation, and coordinate implementation of the scheme.
12	Undergraduate Project Guide	Department of Computer Applications	Aug 2013 – Present	Guide undergraduate projects in AI, Machine Learning, Web Technologies, Image Processing, Databases, Networking, and Software Development.
13	Student Mentor	Department of Computer Applications	Aug 2013 – Present	Provide academic mentoring, placement guidance, internship support, higher education counselling, and entrepreneurship mentoring.
14	Organizing Committee Member	NGM College (Autonomous), Pollachi	Aug 2013 – Present	Organize conferences, seminars, FDPs, workshops, NSS activities, placement programmes, and student development initiatives.

INVITED GUEST LECTURES

Resource Person

- **Government Arts and Science College, Kangeyam**

Delivered an invited lecture on "Visual Programming for Artificial Intelligence and Machine Learning" on 13 September 2024, focusing on visual programming concepts, AI fundamentals, and practical applications in machine learning.

- **Department of Business Administration, NGM College, Pollachi**

Delivered an invited lecture during the Institution's Innovation Council (IIC) programme on 27 March 2025. Topic: Prototype, Process Design and Product Development.

EXTENSION ACTIVITIES

Actively involved in:

- NSS Special Camps
- Blood Donation Camps

- Tree Plantation Drives
- Road Safety Awareness Programmes
- Swachh Bharat Activities
- Health Awareness Programmes
- Environmental Protection Campaigns
- Digital Literacy Programmes
- Student Community Outreach Activities
- Career Guidance Programmes
- Awareness Programmes on Emerging Information Technologies

GOVERNMENT SERVICE

Polling Officer - Served as **Polling Officer** for the **Tamil Nadu Legislative Assembly Election – 2021**, contributing to the successful conduct of the democratic electoral process with integrity and responsibility.

PERSONAL DETAILS

Name: S. Dilip Kumar

Designation: Assistant Professor

Department: Computer Applications

Institution: NGM College (Autonomous), Pollachi

Date of Birth: 10 December 1985

Nationality: Indian

Languages Known:

- English
- Tamil

Hobbies:

- Reading Research Articles
- Cricket

- Carrom
- Exploring Emerging Technologies

REFERENCES

Dr. K. Haridas, MCA, M.Phil., Ph.D.

Head, Department of Computer Applications

NGM College (Autonomous)

Pollachi – 642001

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DECLARATION

I hereby declare that the information furnished above is true and correct to the best of my knowledge and belief. I understand that any misrepresentation or omission may affect my candidature.

Place: Pollachi

Date: _____

(S. Dilip Kumar)