

DR. CHENLEP YAKHA KONYAK, Ph.D.

Assistant Professor | Department of Computer Science & Engineering
School of Engineering & Technology, Nagaland University
Kohima Campus, Meriema, Nagaland, India – 797004
Email: chenlep@nagalanduniversity.ac.in



Dr. Chenlep Yakha Konyak is an Assistant Professor in the Department of Computer Science & Engineering, Nagaland University. His academic and research profile spans Artificial Intelligence, Machine Learning, Deep Learning, Computer Vision, Image Processing, Online Social Networks, Internet of Things (IoT), and Natural Language Processing (NLP). His research increasingly focuses on intelligent multimedia systems, near-duplicate video detection, adaptive learning, smart IoT applications, and technology-enabled community solutions. His work emphasizes practical, interdisciplinary and community-oriented applications of emerging technologies, while his project leadership and student mentorship contribute to the innovation ecosystem of Nagaland University and the wider Northeast region.

Academic Qualifications

Degree	Discipline	Institution
Ph.D.	Computer Science & Engineering	National Institute of Technology Nagaland
M.Tech.	Computer Science & Engineering	National Institute of Technology Nagaland
M.A.	Sociology	Indira Gandhi National Open University
B.E.	Computer Science & Engineering	Visvesvaraya Technological University

Research Expertise

- Computer Vision, Image/Video Processing and Multimedia Analytics
- Online Social Networks and Social-Media Video Traffic Optimization
- Internet of Things (IoT) and Smart Sustainable Systems
- Natural Language Processing and Indigenous Language Technologies

Selected Research Publications

1. **Unique hash value based identical video sharing traffic flow optimization across social networks.** Multimedia Tools and Applications, Vol. 84, 2025, pp. 11983–12011. DOI: 10.1007/s11042-024-19441-z.
2. **A Multi-Access Edge Computing Approach to Intelligent Tutoring Systems for Real-Time Adaptive Learning.** International Journal of Information Technology, Vol. 17, 2025, pp. 2117–2128. DOI: 10.1007/s41870-025-02460-w.
3. **Attention-Based Robust Video Identification in Social Networks.** 2025 6th IEEE International Conference on Mobile Computing and Sustainable Informatics (ICMCSI), pp. 39–45. DOI: 10.1109/ICMCSI64620.2025.10883118.
4. **Contrastive Learning and Temporal Context for Robust Video Identification in Social Networks.** Learning and Analytics in Intelligent Systems, Vol. 45, 2025, pp. 458–465. DOI: 10.1007/978-3-031-82706-8_47.
5. **Recommendation System to Assist Learner: Intelligent Tutoring System.** Learning and Analytics in Intelligent Systems, Vol. 45, 2025, pp. 233–242. DOI: 10.1007/978-3-031-82706-8_24.
6. **Real-Time and Pre-Booked Road Side Parking System Using Internet of Things.** Learning and Analytics in Intelligent Systems, Vol. 45, 2025, pp. 396–402. DOI: 10.1007/978-3-031-82706-8_40.
7. **Tenyidie Syllable-Based Automatic Tone Marker.** 2024 IEEE Silchar Subsection Conference (SILCON 2024). DOI: 10.1109/SILCON63976.2024.10910724.
8. **A Novel Energy-Efficient Routing Algorithm Design and Simulation.** Journal of Data Acquisition and Processing, Vol. 38, 2023, p. 2528. DOI: 10.5281/zenodo.776979.
9. **Innovative machine learning approaches to uncover factors leading to medication errors in pharmacies.** The Pharma Innovation Journal, Vol. 10(1), 2021, pp. 800–803.
10. **Predictive modeling of customer satisfaction in community pharmacies using machine learning.** The Pharma Innovation Journal, Vol. 8(2), 2019, pp. 970–973.

Research Projects & Innovation

- **NagaConnect: Integrated Common Application Platform for Boosting Employment and Business Opportunities in Nagaland** — Principal Investigator; supported through the IIT Bhilai Innovation and Technology Foundation (IBITF) under its technology/startup support ecosystem. The initiative developed an integrated digital platform for employment and business opportunities in Nagaland in collaboration with IIIT-Guwahati.
- **Community-Engagement in Repurposing of Waste Food Using IoT-Enabled Technology** — Principal Investigator; ongoing research/innovation project focused on IoT-enabled food-waste monitoring and sustainable community practices.
- **A Use Case Hosted in Multi-Access Edge Computing: A Smart Tutor System** — Co-Principal Investigator; completed research project on adaptive/intelligent learning using edge computing.
- Current research/mentorship themes include smart food-waste bins, predictive food-waste analytics, cultural-fashion technology, indigenous-language Named Entity Recognition, AI-based detection/mapping systems, and blockchain-based peer-to-peer energy trading.

Student Research Supervision & Mentorship

Dr. Konyak has supervised student research publications, internships and research projects across AI, IoT, intelligent tutoring, smart parking, food-waste management, blockchain, computer vision, language technologies and community-oriented systems.

Professional Memberships

- IEEE — Society Membership
- India Electronics and Semiconductor Association (IESA) — Membership

Research & Academic Service

- Reviewer: International Conference on Computational Intelligence, Networks and Security (ICCINS 2023).
- Reviewer: 3rd IEEE International Conference on Communication, Control and Intelligent Systems (CCIS 2024).
- Reviewer: 2025 IEEE SILCHAR Subsection Conference.
- Reviewer: 8th International Conference on Emerging Technologies in Computer Engineering (ICETCE-2025).
- Author of book chapters on Artificial Intelligence in workplace efficiency and Computer Vision for quality control in manufacturing.

Administrative & Institutional Responsibilities

- Warden, Barak Boys' Hostel, Nagaland University, Kohima Campus, Meriema — with effect from 01 June 2026.
- President, Institution's Innovation Council (IIC), School of Engineering & Technology, Nagaland University — 2026.
- MY Bharat Nodal Officer, Nagaland University — 2026.
- SWAYAM Coordinator/academic coordination responsibilities for CSE — 2026 session.
- Department In-charge, Department of Computer Science & Engineering — 13 December 2025 to 21 January 2026.
- Member, Student Grievance Redressal Committee, School of Engineering & Technology, Nagaland University — institutional appointment recorded for a two-year term.

Invited Talks, Innovation & Outreach

- Invited lecture on "AI in Teaching, Learning, Research & Ethics" with hands-on activity at the State College of Teacher Education, Kohima.
- Invited speech on the NagaConnect startup at a Startup Sprint seminar.
- Actively engaged in technology innovation, entrepreneurship, student mentoring and community-oriented digital solutions.

Academic Identity & Online Profiles

- ORCID: <https://orcid.org/0000-0002-5373-5903>
- IRINS/Vidwan: <https://nagalanduniversity.irins.org/profile/209799>
- Google Scholar: <https://scholar.google.com/citations?user=6sCI45kAAAAJ>
- LinkedIn: <https://in.linkedin.com/in/dr-chenlep-yakha-konyak-68a49228a>
- Nagaland University CSE Faculty: https://kohima.nagalanduniversity.ac.in/cse_faculty

Contact Information

- Official Email: chenlep@nagalanduniversity.ac.in
- Designation: Assistant Professor
- Department: Computer Science & Engineering
- School: School of Engineering & Technology
- Institution: Nagaland University
- Campus: Kohima Campus, Meriema, Nagaland, India