

# Utkarsh Patel

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Bangalore, India

## EDUCATION

**Ramaiah Institute of Technology**  
*B.E. Computer Science*

Bangalore, India  
*Oct. 2023 – July 2027*

## RESEARCH & PUBLICATIONS

**Paper Published (ICDDDS '25):** "Explainable Convolutional Network for Clinically Confusable Lung Diseases" (IIIT Dharwad).

**Paper Presented (ISAI-DT '24):** Research on automated information extraction from legal texts.

## PROJECTS

**PeerNexus (Torrent Client)** | *Java, Networking* | [GitHub](#)

- Engineered a BitTorrent-style peer-to-peer torrent client with custom protocol handling, achieving stable file transfers.
- Orchestrated multithreaded socket-based peer communication, piece exchange, and file reassembly.
- Formulated tracker interaction, bitfield exchange, choking/unchocking logic, and integrity-verified piece scheduling.

**HALEM-PEGASIS Evaluator** | *Java, Swing, Maven* | [GitHub](#)

- Proposed and implemented HALEM-PEGASIS, a novel hierarchical extension of PEGASIS for WSN routing.
- Designed a simulator to compare network lifetime and energy efficiency against baseline PEGASIS using adaptive leader rotation.

**Toxic Comment Detection** | *Python, Flask, Scikit-Learn* | [GitHub](#)

- Constructed an end-to-end toxic comment classification system using TF-IDF, SVM, Logistic Regression, and XGBoost.
- Deployed a Flask dashboard for interactive testing and applied ensemble methods to maximize prediction accuracy.

**Lumen (Course Selling Website)** | *Node.js, Express, MongoDB* | [GitHub](#)

- Architected a full-stack platform for browsing and purchasing courses, supporting 100+ concurrent user sessions.
- Integrated secure authentication, instructor dashboards, and optimized database schemas for faster retrieval.

## EXPERIENCE

**IEEE Computer Society, RIT Chapter**

Bangalore, India

*Chair*

*Dec. 2025 – Present*

- Spearheading student engagement initiatives, resulting in a **30% increase** in active chapter membership.
- Coordinating **20+ large-scale technical events**, including coding competitions and workshops with **1750+ participants**.
- Managing a core team of **48 members** to execute event logistics, budgeting, and marketing strategies.

**IEEE Computer Society Bangalore Chapter**

Bangalore, India

*Intern (IAMPro '25)*

*Apr. 2025 – Sept. 2025*

- Selected for IAMPro '25 (**top 5% of applicants**), a rigorous 6-month industry-oriented mentorship program.
- Collaborated with cross-chapter teams to execute technical initiatives, enhancing community outreach across **3 colleges**.
- Co-authored and released a research paper on "Explainable Convolutional Networks" at the ICDDDS '25 conference.

## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript

**Web Dev:** React.js, Angular, Node.js, Express.js, HTML, CSS, MongoDB

**CS Fundamentals:** DSA, OOP, Algorithms

**Tools:** Git, GitHub, Maven, N8N