

I am a fourth-year Ph.D. Candidate from the department of CSE @ IIIT-Delhi, co-advised by Prof. Pushpendra Singh (IIIT-Delhi) & Prof. Mohan Kumar (RIT, NY, USA). My research combines AI/ML, sensing, ubiquitous computing, and HCI to design context-sensitive technologies for proactive health and wellbeing in Global South settings. Through my research, I aim to bridge the gap between algorithmic innovation and real-world care practices.

## EDUCATION

- **Indraprastha Institute of Information Technology** Delhi, India  
*Ph.D. Candidate, CSE; Thesis: HCAI for Collective Care; CGPA: (8.36/10)* Jan '22 – present
- **Northeastern University** Boston, MA, United States  
*M.S. in Computer Systems Engineering - IoT; CGPA: (3.71/4.0)* Aug '17 – Aug '19
- **SASTRA University** Thanjavur, India  
*B.Tech. in Electronics and Instrumentation Engineering; CGPA: (7.30/10.0)* July '12 – Apr '16

## AWARDS

- **DST Chanakya Fellowship:** Recipient of the NM-ICPS DST Chanakya Fellowship (Aug 24 - May 25)
- **MLSS 2024 Travel Bursary:** Received travel grant of 100,000 JPY to attend MLSS 2024, at OIST, Japan
- **ACM SIGCHI Travel Grant:** Received travel grant to attend ACM SIGCHI Symposium for HCI and Friends

## PUBLICATION

- IIIT-Delhi (*T - Thesis, A - Auxiliary*) Jan '22 - Present
- **Papers (T):** CSCW '25, CHI '25 EA
  - **Short Papers/Posters (T):** HCI and Friends 2022, RISE '23
  - **Workshop Papers (T):** HCIxB @ CHI '25, PhysioCHI @ CHI '24, LLMCHI @ CHI '24
  - **Short Papers/Posters (A):** SIGCSE TS '24., MLSS '24, Okinawa, Japan, COMPASS '24, Delhi, India

## EXPERIENCE

- **IIIT-D** Delhi, India  
*PhD Candidate* Jan 2022 - Present
  - **A Demonstration of the Collective Care framework - HCAI Research Study:** Ongoing study to validate the Collective Care framework through a pilot deployment supporting care realities in Global South societies, such as India. The results and findings are targeted for IMWUT (UbiComp '26).
  - **Information Seeking Awareness and Adoption Impact - HCAI Research Study:** Ongoing study on how people seek, verify, and adopt online health and wellbeing information, with a pilot to validate a personalized verification prototype. The results and findings will be submitted to IMWUT (UbiComp '26).
  - **The Collective Care framework - HCI Research Study:** Developed an HCAI-based Collective Care framework to guide technology design for Global South contexts like India. Under review at CHI '26.
  - **Demystifying Medical Records using GenAI-based Information Extractor- HCAI Research Study:** Study on using locally fine-tuned open LLMs to extract context-specific health history from medical records such as discharge summaries. The results and findings of the experiments are published at CHI '25 LBW.
  - **TV as an Interactive Engagement Medium (TIES) - HCAI Research Study:** Conducted a study on using TV as a privacy-aware care medium for older adults in urban India. Developed a video prototype as a probe and evaluated its feasibility. Published at CSCW '25.
  - **Unpacking Health Tracking Awareness, Understanding and Preferences - HCI Research Study:** Conducted a study on how urban Indians perceive PHI metrics. A key finding on PHI sharing led to further exploration on how, when, and why users share health data, evaluated with a mid-fi prototype. The results and findings are under review at ACM HEALTH Special Issue, May '25.
- **IIIT-D** Delhi, India  
*Teaching Assistantship - Assisting faculty on teaching and auxiliary research* Jan '22 - Dec '23
  - **Head TA - Computer Networks:** Monsoon '25

- **Head TA - Software Development Using Open Source:** Monsoon '23
- **Head TA - Distributed Systems Concepts and Design:** Winter '23
- **Head TA - Introduction to Programming:** Monsoon '22
- **Personal TA for special needs student - Introduction to Programming:** Monsoon '22
- **TA - Analysis and Design of Algorithms:** Winter '22
- **Unanu** Chennai, India  
*Lead Programmer Analyst - Seasonal* Apr '21 - Dec '21
  - **Automated Data Dashboard Design — System Design, SQL, powerBI, Azure dataflow:** Built and deployed a data pipeline, dataflow, and PowerBI dashboard for Daimler ASIA's Engine Subassembly, displaying logistics, shortage, storage, and production metrics.
- **Saras Inc.** Fremont, California, United States  
*Programmer Analyst* Dec '19 - Dec '21
  - **Health portal APIs — python, Pandas, Scikit-Learn, GCP:** Designed, developed, and deployed multi-task, multi-class classification consumer-facing APIs using the GCP API framework.
  - **API Usage dashboard — python, Pandas, Scikit-Learn, javascript, GCP:** Created a usage dashboard for the user portal managers that helps with traffic monitoring and smart resource management.
- **Bose Corporation** Boston, Massachusetts, United States  
*Product Security Engineer Co-op* Jan '19 - June '19
  - **Embed Check — python, C++, Jenkins, shell:** Secured product builds by creating an automation test suite for the CI/CD pipeline to determine and eliminate network and embedded software vulnerabilities in home entertainment smart sound systems.
  - **Embed Check Upgrade — python, C++, Jenkins, shell:** Designed a proactive analysis feature through adaptive learning of network vulnerabilities to implement in the pipeline.
  - **Vulnerability Testing — python, C++, shell:** Saved recall costs on hundreds of thousands of smart sound systems by evaluating its timing attack-prone model to mitigate issues and helped by obtaining secure code fixes.
- **Ansrsource India Pvt. Ltd.** Bangalore, India  
*Academic Author - Digital Media* May '16 - June '17
  - **VILT and ILT Course Development - Cantasia, audacity, LMS, adobe suite, web frameworks:** Designed, developed, & deployed e-learning content for IIMB, McGraw-Hill, Pearson, Fortuna Pix, Cengage, ASU.
  - **Content Workflow - System/Process Design:** Designed and initiated a content workflow framework, beating the performance of an automated workflow by 100% while negating unaccounted errors.
  - **Device Adaptive e-Books - LMS, adobe suite, web frameworks :** Designed and developed e-Books and adaptive pdf for various clients using adobe suite and a few proprietary web frameworks.

## VOLUNTEERING AND REVIEWING

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- **Vounteering:** Assistant to General Chairs @ ACM COMPASS 2024, Program and Speaker Session Volunteer @ ACM SIGCHI Symposium for HCI and Friends
- **Reviewing:** CHI (2023, 2024, 2025), TEI (2024, 2025), IMX (2024), IMWUT (2024), DIS (2024), C&C (2024, 2025), CSCW (2024, 2025), SIGCSE TS (2024), SIGCSE TS Virtual (2024), ITiCSE (2024, 2025)
- **Program Committees:** TEI WiP (2026), C&C Papers (2024), ITiCSE Papers (2025), ITiCSE Posters (2024), SIGCSE TS Virtual (2024), SIGCSE TS Posters (2024)

## SKILLS & COMPETENCIES

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- **Languages:** Python, Java, Javascript, C, C++, Spec C, Embedded C
- **Technologies:** pytorch, tensorflow, Scikit-learn, Numpy, Pandas, LLM training, LoRA, Flutter, wandb
- **AI/ML/DL Methods:** Self-supervised Learning, Supervised Learning, Semi-supervised Learning, LLM training/finetuning, LoRA, Domain Adaptaion
- **Platforms and Techniques:** Raspberry Pi, Nvidia, Arm, Health Sensing (Physiological Signal Processing for model training and real-time inference)