

Mohammad Saim

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Research Interests

Affective Computing · Large Language Modeling · Computational Social Science

Education

PhD in Computer Science & Engineering

University of Cincinnati

Advisor: [Dr. Tianyu Jiang](#)

Aug 2024 – Present

GPA: 3.87 / 4.0

Focus: *Language Modeling for Emotion Understanding*

Bachelor of Technology in Computer Engineering

Zakir Husain College of Engineering & Technology, AMU

2020 – 2024

GPA: 9.07 / 10.0

Research Experience

Doctoral Research | University of Cincinnati

Aug 2024 – Present

- Developed **ELENA** (Embodied LVLN Emotion Narratives), a zero-shot framework using large vision-language models for embodied emotion recognition; achieved up to 15.6 F1-point improvements over baselines across multiple datasets.
- Analyzed emotion-moral judgment interactions in LLMs; constructed an emotion-induction pipeline showing that induced emotions reverse binary moral decisions in up to 20% of cases and expose an alignment gap between LLMs and human raters.

Graduate Research Assistant | University of Cincinnati (Sponsored: Cincinnati Inc. & GE)

May 26–Present

- Contributing to a **Closed-Loop AI-Assisted Framework for Intelligent Design and Manufacturability**, integrating LLM-driven reasoning into industrial design pipelines using CAD and NX software for automated verifiability.

Summer Research Intern | IIT Jodhpur, School of AI & Data Science

May 2024 – Jul 2024

Supervised by [Prof. Ganesh Manjhi](#)

- Performed geospatial analysis of water surface area changes in Jharkhand using satellite imagery, WRIS datasets, OpenStreetMap, and QGIS; produced temporal analysis of reservoir and non-reservoir water body variation.

Publications

- Saim M.**, Jiang T. “Do Emotions Influence Moral Judgment in Large Language Models?” To appear in *Findings of the 64th Annual Meeting of the Association for Computational Linguistics (ACL 2026)*. [\[Preprint\]](#)
- Saim M.**, Duong P. A., Luong C., Bhandari A., Jiang T. “Anatomy of a Feeling: Narrating Embodied Emotions via Large Vision-Language Models.” *Findings of EMNLP 2025*.
- M. Saim**, R. Rizvi, M. Khan. “Analyzing the Performance of ML and DL Models in Detecting Cyberbullying Comments.” *ICRASET 2023*, pp. 1–6.
- M. Saim**, R. M. Rizvi. “Digital Resilience: A Review of Cutting-Edge Approaches to Cyberbullying Detection in the Social Media Landscape.” *IDICAIEI 2023*, pp. 1–6.
- M. Mamoon, **M. Saim**, I. Shah, A. Samad. “A Decentralized BYOD Authentication System Secure against Re-Entrancy Attacks.” *ICCCNT 2023*, IIT Delhi, pp. 1–7.
- M. Saim**, M. Mamoon, I. Shah, A. Samad. “E-Voting via Upgradable Smart Contracts on Blockchain.” *INCOFT 2022*, pp. 1–6.

Teaching Experience

Graduate Teaching Assistant | University of Cincinnati

Aug 2024 – Present

- Formal Languages & Automata** (Spring '26, Dr. Guan) – Assisted students with finite automata, context-free grammars, and pumping lemma proofs.
- Operating Systems** (Fall '25, Prof. Gallagher) – Supported kernel compilation, module development, and custom Linux kernel build assignments.
- Intelligent Data Analysis** (Spring '25, Prof. Atluri) – Guided students through frequent pattern mining, classification algorithms, and statistical modeling techniques.
- Machine Learning** (Fall '24, Prof. Ralescu) – Covered regression, Bayesian learning, gradient ascent in ANNs, and SMO; assisted with grading and doubt clearance.

Technical Skills

Languages	Python, C, C++, JavaScript, Solidity
ML/DL	PyTorch, TensorFlow, HuggingFace Transformers, Keras, OpenCV
LLM/VLM Tooling	Gemini/Claude APIs, RAG pipelines, fine-tuning, prompt engineering, vector databases
Web & Viz	React, Flask, Streamlit, Gradio, Matplotlib, Seaborn, Tableau
Tools	Git, Docker, LaTeX, QGIS, Adobe Suite

Honors & Awards

- **Best PhD Student Award (2025–26)**, Department of Computer Science & Engineering, University of Cincinnati
- **IEEE Lance Stafford Larson Student Award 2023** – recognized for excellence in technical content, writing, and presentation
- **Sir Syed Mentoring & Assistance Fellowship** (2023–24)
- **Third Rank**, Engineering & Technology proposals, In-House Students' Research Convention, AMU Innovation Council [\[News\]](#)

Select Projects

- Comment Toxicity Classifier** [\[🔗\]](#) 2023
- Built a multi-label toxic comment classifier using BERT, DistilBERT, and GRU, achieving over 90% accuracy; deployed via a Gradio interface.
- Real-Time Object Detection for Visually Impaired** | [Prof. Sarosh Umar](#) 2023
- Developed an assistive mobile application using MobileNet SSD with voice feedback, OCR, and haptic navigation for blind users.
- Decentralized BYOD Authentication System** | [Dr. Abdus Samad](#) 2022
- Designed and deployed a smart contract-based authentication system using keccak256 cryptographic credential security with a full user interface.

Symposia & Conference Presentations

- **Asian Undergraduate Symposium (2024)**, National University of Singapore – Presented plans to revive low-resource languages in Southeast Asia (track: Heritage & Culture).
- International Conference on Artificial Intelligence in Education and Industry 4.0 (IDICAIEI), 2023.
- International Conference on Recent Advances in Science & Engineering Technology (ICRASET), 2023.
- 14th International Conference on Computing, Communication, and Networking Technologies (ICCCNT), IIT Delhi, 2023.
- International Conference on Futuristic Technologies (INCOFT), Belgaum, 2022.

Leadership & Service

- Chairperson, IEEE Computer Society** | [Zakir Husain College of Engineering & Technology](#) 2023–24
- Organized three workshops on ML/AI attended by 60+ students; led editorial team for the society's inaugural annual newsletter; oversaw inter-club coding competitions.
- Co-Coordinator, Design & Animation** | [IEEE Student Branch, ZHCET](#) 2021–22
- Led event promotion through visual design and strategic content publishing for the student branch.
- Academic Guide** | [SSMAF Fellowship](#) 2025–Present
- Serves as an academic mentor and guide for students applying to study-abroad program under the fellowship program.

Academic Service

- **Reviewer**, LREC-COLING 2025 International Conference on Language Resources and Evaluation.
- **Reviewer**, ACL Rolling Review (ARR) – March 2026 cycle.