

LAKSITA PRASANNA

Computer Science and Engineering Student

J.B. Speed School of Engineering | University of Louisville

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[Google Scholar Profile](#)

[Website](#)

EDUCATION

B.S. Computer Science and Engineering

University of Louisville, Louisville, KY

Minor in Psychology

Honors & Honors Scholars Program

Expected May 2026

GPA: 3.8

Relevant Coursework: Artificial Intelligence, Machine Learning, Deep Learning, Psychology, Algorithms, Data Structures, Object Oriented Java, Python & Analytics, Automata Theory, Embedded System, Operating Systems, C/C++, C#

RESEARCH EXPERIENCE

Undergraduate Research Assistant

Jan 2023 - May 2024

Louisville Automation and Robotics Research Institute, University of Louisville

- Led research trials with 30+ participants to study the impact of Printed vs. Verbal Instructions from Humanoid Nao Robot (programmed with Choregraphe) for a LEGO assembly task simulating a manufacturing environment
- Collected multi-angle facial recordings, physiological data (EDA, BVP, and SKT), and Godspeed and Rosas questionnaires to predict people's perception of robots, contributing to a deeper understanding of human-robot interaction
- Assisted in training a Convolutional Neural Network (CNN) model on extracted multimodal data for emotion recognition using Keras and NumPy in Python

PUBLICATIONS

Mishra, R., **Prasanna, Laksita**, Adair, Adair, and Popa, D.O., 2024. Multimodal Sensing and Machine Learning to Compare Printed and Verbal Assembly Instructions Delivered by a Social Robot. accepted to IEEE International Conference on Automation Science and Engineering (IEEE CASE 2025) [\[link\]](#)

POSTERS

Prasanna, Laksita, Adair, A., Mishra, R., and Welch, K., 2024. Simulated Industrial Assembly: Robot vs. Paper Instructions. In Proc. of the 22nd Annual Kentucky Posters at the Capitol Undergraduate Research Poster Session, Frankfort, KY, March 7, 2024 [\[link\]](#)

PROFESSIONAL MEMBERSHIPS

Tau Beta Pi, Corresponding Secretary (2024-Present)

Society of Women Engineers (SWE), Member (2022-Present)

Association for Computing Machinery (ACM), Member (2024-Present)

application using Avalonia and Reactive UI, emphasizing robust application logic and intuitive UI for testing IPX devices and provisioning default assets for future installations

- DevOps / Software Engineer Intern* *Aug – Dec 2024*
- Engineered Grafana dashboards for data visualization of key pipeline statuses and server metrics by integrating Jira REST API data from MySQL, showcasing strong SQL proficiency and back-end data processing.
 - Authored Python scripts to automate CI/CD deployment pipelines, using a webhook server to process data from Bitbucket and Confluence and update MySQL databases, supporting real-time reporting and data visualization.

- Front-end Software Engineer Intern* *May – Aug 2024*
- Built responsive, user-friendly UI components in C# (Avalonia, Reactive UI, MVVM) for Priority Event forms, enabling IPX device event scheduling within an Avalonia (Cross-platform) app

OTHER WORK EXPERIENCE

Speed School Work Study *Aug – Dec 2022*

Civil and Environmental Engineering Department, University of Louisville, Louisville, KY

- Supported departmental operations by managing reception and supply areas
- Assisted faculty with scanning, copying, and printing materials
- Ensured an organized, well-stocked, and welcoming workspace

A grade Ahead Teacher

Second Grade Math: 5 students (2024)

Second Grade English: 5 students (2024)

Geometry: 3 students (2023-2024)

HS Math: 1 student (2023)

HS Math: – 3 students (2024)

LANGUAGES

Tamil (fluent)

Telugu (conversational)

Hindi (comprehension + writing)

Malayalam (comprehension only)

HONORS AND AWARDS

Dean's list Fall 2022, Spring 2023, Summer 2023, Fall 2023, Spring 2024, Spring 2025

Papa John's Women in Tech (WIT) Scholarship recipient (2022)

JCRTA Scholarship Winner in recognition of dedication, leadership, academic achievement, community service, and commitment to the teaching profession (2022)

Nola Cook Scholarship Winner and an Ambassador of the Nola Cook Scholarship for students underrepresented in the S.T.E.M fields (2022)

Received Academic Achievement Award from the House of Representatives Commonwealth of Kentucky (2022)

Received a certificate from The Senate Commonwealth of Kentucky (2022)

Received the AP Scholar Award (2022)