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   Expected May 2026
University of Louisville, Louisville, KY   GPA: 3.8
Minor in Psychology
Honors & Honors Scholars Program

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

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)

LEADERSHIP/SERVICE

Freshmen Speed School Student Council, Event Coordinator (2022-2023)
Indian Student Association (ISA), Member (2022 – present)
      Jalsa (Festival of Diwali | Largest cultural celebration on campus)
            Décor Chair (2024)
            Participant Coordinator (2023)
      Derby City Dhoom (National Bhangra and Fusion dance competition)
            Head Liaison (2023 & 2024)
Cardinal Saathiya (Fusion dance team), Social media Director (2022-2023)
Cardinal Bhangra (Bhangra dance team), Manager (2023-2024)
Guru Vandana Arts Academy (GVAA)
      Bharatnatyam (Indian Classical) Dancer (2022-Present)
      Carnatic (Indian Classical Music) Singer (2025-Present)
Gopika Varma's Dasyam Dance Institute
      Bharatnatyam (Indian Classical) Dancer (2019-2021)
Subbalakshmi Dance Academy
      Bharatnatyam (Indian Classical) Dancer (2015-2018)
Hindu Temple of Kentucky, Student Volunteer Committee President (2023-Present)
Tamil Sangam Association (community for people of Tamil-speaking origin)
      Décor Chair (2023)
      Volunteer for all events (2022-Present)
Telugu Association of Kentuckiana (community for people of Tamil-speaking origin)
      Performance Coordinator (2023)
      Volunteer for all events (2022-Present)
Undergraduate Research Club, Member (2022-Present)
      Valley High School Science Fair Mentor (2024)
Volunteer at Fundamentals of Engineering Showcase (Spring 2025)

TECHNICAL SKILLS

Languages: C#, Python, Java, JavaScript, HTML, CSS, C, C++, SQL, Assembly AVR, TypeScript
Technologies and Frameworks: .NET, React.js, LINQ, Avalonia UI (Cross-platform), Reactive UI (Reactive MVVM), Docker, Grafana, Git, GitHub, NUnit, NSubstitute

CERTIFICATIONS

Amazon Web Services Certified Cloud Practitioner (AWS CCP) issued Aug 2025
Adult First Aid/CPR/AED Certified issued by American Red Cross in June 2025

INDUSTRY EXPERIENCE

AtlasIED   *Louisville, KY*
      Full-Stack Software Engineer Intern   *May - Aug 2025*
                  • Developed a C# console application to streamline builds across interdependent microservices, enhancing back-end processes and expediting MVP development in an Agile environment.
                  • Collaborated with fellow interns to design and implement a full-stack C# 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)