

Ravindu Perera

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[ravindutharanga.github.io](https://github.com/ravindutharanga)

[Google Scholar](#)

EDUCATION

Clemson University

August 2023 – May 2025

Master of Science in Computer Science

Clemson, SC

*Coursework: Deep Learning, Data Science, Software Engineering
Databases, HCI, Algorithms, Cyber Security*

Institute of Chemistry Ceylon

2016 – 2020

Bachelor of Science in Chemistry

Colombo, Sri Lanka

Coursework: Physical Chemistry, Organic Chemistry, Analytical Chemistry

PUBLICATIONS (Peer-Reviewed)

- [1] [Perera, R.](#), & Toxtli, C. (2024). *Exploring AI-Enhanced Multi-Screen Interaction in Extended Reality Workspaces*. CHIWORK 24: Proceedings of the 3rd Symposium on Human-Computer Interaction for Work, Association for Computing Machinery. [\[Paper\]](#) [\[Demo\]](#)
- [2] [Perera, R.](#), & Toxtli, C. (2024). *AI Assistants in the Workplace: Goal-Oriented Recommendations Using LLM*. Tenth Mexican International Conference on Human-Computer Interaction (ACM MexIHC 2024), Association for Computing Machinery, Sinaloa, Mexico. [\[Paper\]](#)
- [3] [Perera, R.](#), Ravi, A., & Toxtli, C. (2024). *Assessing the Task Management Capabilities of LLM-Powered Agents*. CHIWORK 24: Proceedings of the 3rd Symposium on Human-Computer Interaction for Work, Association for Computing Machinery. [\[Paper\]](#)
- [4] Fan, W., [Perera, R.](#), & Toxtli, C. (2024). *SmartMonitor: Edge-Based Activity Monitoring from Visual Input*. CHIWORK 24: Proceedings of the 3rd Symposium on Human-Computer Interaction for Work, Association for Computing Machinery. [\[Paper\]](#)

RESEARCH EXPERIENCE

Volunteer Research Assistant

August 2025 – Present

Human-AI Empowerment (HAIE) Lab, Clemson University

Clemson, SC

- Fine-tuning a multi-task BERT and RoBERTa NLP models for thematic analysis of AI-focused communities of practice.(CHI 2026)
- Designed a dual-head architecture model for Category and Subcategory classification by achieved 85% accuracy.

Graduate Research Assistant

August 2023 – May 2024

Human-AI Empowerment (HAIE) Lab, Clemson University

Clemson, SC

- Conducted human AI interaction research projects that led to four peer-reviewed publications at ACM MexIHC and CHIWORK 2024
- Mentored undergraduate students and collaborate with in research methods, data analysis, and experimental design within the Human-AI Empowerment Lab

TEACHING EXPERIENCE

Data Visualization Teaching Assistant

May 2024 – May 2025

Data Visualization Lab, Clemson University Libraries

Clemson, SC

- Teaching students and staff in learning data visualization techniques through workshops and mentorship
- Organize workshop sessions on tools such as Python, Power BI, Tableau and helping participants build effective dashboards

EXPERIENCE	Software Engineer <i>Deviitor</i>	2020 – 2022 Colombo, Sri Lanka
	<ul style="list-style-type: none"> • Developed and deployed full-stack web applications using React, Node.js, PHP, and SQL with secure, scalable, and responsive design • Collaborated with cross-functional teams to optimize performance and user experience, improving system reliability and client satisfaction. 	
PRESENTATIONS	1. Assessing the Task Management Capabilities of LLM-Powered Agents, Poster, CHIWORK 2024, Newcastle, UK. 2. Exploring AI-Enhanced Multi-Screen Interaction in Extended Reality Workspaces, Poster, CHIWORK 2024, Newcastle, UK.	
VOLUNTEER EXPERIENCE	Data Analyst <i>Better Future Institute</i>	Feb 2024 – May 2024 San Antonio, TX
	<ul style="list-style-type: none"> • Conducted analysis of City of San Antonio data to evaluate the correlation between civic engagement and sustainability outcomes. • Designed and developed an integrated data visualization dashboard using Python (Matplotlib, NumPy, Pandas, Seaborn). 	
	Research Assistant <i>School of Computing, Clemson University</i>	September 2023 – August 2024 Clemson, SC
	<ul style="list-style-type: none"> • Designed and maintained the HAIE Clemson Laboratory Website, ensuring an up-to-date and user-friendly online presence. • Installed and maintained Linux and Windows systems on laboratory machines, ensuring optimal performance for research activities. 	
CERTIFICATIONS	Conducting Social and Behavioral Science Research (SBR) Deep Learning Specialization - DeepLearning.AI Machine Learning Specialization - DeepLearning.AI AWS Certified Cloud Practitioner	
SKILLS	Programming Languages: Python, C#, C, C++, JavaScript, SQL Machine Learning: Scikit-Learn, TensorFlow, PyTorch, OpenCV, YOLOv8 Cloud Platforms: AWS (EC2, S3, Lambda), Azure Software & Tools: Unity 3D, Git, MySQL, JetBrains, VS Code, Figma, Overleaf Data Visualization: Tableau, Power BI, Matplotlib, Seaborn Soft Skills: Communication, Presentation, Team Work	