

Ravindu Perera

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[Google Scholar](#)

EDUCATION	Clemson University <i>Master of Science in Computer Science</i> <i>Coursework: Deep Learning, Data Science, Software Engineering, Databases, HCI, Algorithms, Cyber Security</i>	August 2023 – May 2025 Clemson, SC
	Institute of Chemistry Ceylon <i>Bachelor of Science in Chemistry</i> <i>Coursework: Physical Chemistry, Organic Chemistry, Analytical Chemistry</i>	2016 – 2020 Colombo, Sri Lanka
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 <i>Human-AI Empowerment (HAIE) Lab, Clemson University</i>	August 2025 – Present Clemson, SC
	<ul style="list-style-type: none">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 <i>Human-AI Empowerment (HAIE) Lab, Clemson University</i>	August 2023 – May 2024 Clemson, SC
	<ul style="list-style-type: none">Conducted human AI interaction research projects that led to four peer-reviewed publications at ACM MexIHC and CHIWORK 2024Mentored 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 <i>Data Visualization Lab, Clemson University Libaries</i>	May 2024 – May 2025 Clemson, SC
	<ul style="list-style-type: none">Teaching students and staff in learning data visualization techniques through workshops and mentorshipOrganize workshop sessions 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	