

# Ravindu Perera

Asheville, NC

rkankan@clermson.edu

[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). *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, Mexico, Sinaloa. <https://doi.org/10.47756/aihc.y9i1.140>
- [2] [Perera, R.](#), Ravi, A., & Toxtli, C. (2024). *Assessing the Task Management Capabilities of LLM-Powered Agents*. CHIWORK 24: Proceedings of the 3rd Annual Meeting of the Symposium on Human-Computer Interaction for Work, Association for Computing Machinery. <https://doi.org/10.13140/RG.2.2.11776.85768>
- [3] [Perera, R.](#), & Toxtli, C. (2024). *Exploring AI-Enhanced Multi-Screen Interaction in Extended Reality Workspaces*. CHIWORK 24: Proceedings of the 3rd Annual Meeting of the Symposium on Human-Computer Interaction for Work, Association for Computing Machinery. <https://doi.org/10.13140/RG.2.2.31604.36481>
- [4] Fan, W., [Perera, R.](#), & Toxtli, C. (2024). *SmartMonitor: Edge-Based Activity Monitoring from Visual Input*. CHIWORK 24: Proceedings of the 3rd Annual Meeting of the Symposium on Human-Computer Interaction for Work, Association for Computing Machinery. <https://doi.org/10.13140/RG.2.2.20165.46561>

## RESEARCH EXPERIENCE

### 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.
- Designed a dual-head architecture model for Category and Subcategory classification by achieved 66% 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

### DataVisualization Teaching Assistant

August 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

- 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**

<p><b>Data Analyst</b>  <i>Better Future Institute</i></p>	<p>Feb 2024 – May 2024  San Antonio, TX</p>
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- 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).

<p><b>Research Assistant</b>  <i>School of Computing, Clemson University</i></p>	<p>September 2023 – August 2024  Clemson, SC</p>
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- 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**

Deep Learning Specialization - DeepLearning.AI  
Machine Learning Specialization - DeepLearning.AI  
Conducting Social and Behavioral Science Research (SBR)  
AWS Certified Cloud Practitioner

**SKILLS**

**Programming Languages:** Python, C, C++, JavaScript, SQL, C#  
**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