

# Chameli Dilshani Menike Dommanige

## CONTACT

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## RESEARCH INTERESTS

Machine Learning with a focus on Natural Language Processing (NLP) and multimodal learning, particularly Multimodal Large Language Models (MLLMs). I am interested in prompt engineering and prompt tuning for improving structured information extraction, robustness, and reliability of model outputs, with a current emphasis on extracting structured data from complex document tables.

## PhD in Computer Science, Old Dominion University, USA (In progress)

Aug 2025 – Present | GPA: 4.0/4.0

## BSc (Hons) in Computer Science, University of Peradeniya, Sri Lanka

2018 – 2022 | GPA: 3.3/4.0

Core subjects: Computer Science, Mathematics, Statistics.

## EDUCATION

## RESEARCH WORK

## RESEARCH EXPERIENCE

## CAREER SUMMARY

### Peer – reviewed Conference – Abstract

Menike, D. C. D., Dayaratna, H. R. O. E.

Enhanced Cyberbullying Identification on Social Media Using Emojis and Text.

Abstract presented at the 8th International Conference of the Association of Sri Lankan Academics in Japan (SLAcJ), 2024. ISBN 978-624-95320-4-5., p. 154.

### IESL journal (Engineer: Journal of the Institution of Engineers, Sri Lanka)

Buddika, H. A. D. S., Amarathunga, A. M. R. S., Menike, D. C. D., et al. Use of Machine Learning Techniques to Predict In-situ Concrete Compressive Strength Using Non-Destructive Testing. Engineer: Journal of the Institution of Engineers, Sri Lanka, 2024.

[DOI: 10.4038/engineer.v57i3.7653](#)

I am currently working on a project focused on structured information extraction from tables with complex structures in scientific documents. My research focuses on utilizing multimodal large language models (MLLMs) to convert table images into schema-aligned, structured representations, with a particular emphasis on prompt engineering and prompt tuning to enhance robustness across diverse table layouts.

### TEACHING EXPERIENCE

Assistant Lecturer, APIIT Higher Education Institute (Computing), Sri Lanka  
Aug 2024 – Aug 2025

Visiting Lecturer, APIIT / NIBM / ACBT (Sri Lanka)  
2023 – 2024

Temporary Demonstrator, University of Peradeniya  
Oct 2022 -Aug 2024

### INDUSTRY EXPERIENCE

Software Engineering – Internship (Eyepax IT Consulting (Pvt) Ltd.), Sri Lanka  
April 2022 – Oct 2022