

Chathuri Jayaweera

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INTERESTS

◇ Natural Language Processing ◇ Machine Learning ◇ Explainable AI ◇ Data Science

EDUCATION

University of Florida

Ph.D. in Computer Science

Department of Computer and Information Science and Engineering

GPA: 3.66/4.0

Gainesville, Florida

2022-Present

University of Moratuwa

Honours Degree of Bachelor of the Science of Engineering

Specialisation: Electronic and Telecommunication Engineering

Dean's Honour List in Semester 1, 2, 6, 7 and 8.

GPA: 3.66/4.2 (3.63/4.0)

Moratuwa, Sri Lanka

2015-2019

DeepLearning.ai

Neural Networks and Deep Learning

Coursera

2019

SELECTED PROJECTS

Targeted Sentiment Analysis through Dependency parsing (2023 - Present)

Automatically extracting targeted entities out of text and analyzing their embedded sentiment.

Stack : Python, SpaCy, Dependency trees, DistilBERT.

Automatic Error Visualizing and Analyzing Tool (2021)

A tool for classification, visualization and frequency analysis of translation errors of a Machine Translation system.

Stack : Python, NLTK, Jupyter Notebook.

Improving Sinhala - English Machine Translation quality using Automatic Post Editing (APE) Techniques (2020)

Research on current APE techniques and implementation of a suitable APE system to improve Sinhala - English Machine Translation quality

Stack : OpenNMT-py, OpenNMT-tf, Pytorch, Transformer model architecture.

Customer recommender solution for banking domain (2018)

A customer recommender solution with a useful feature that enables the bank to describe customer behaviors and generate insight through them was designed and implemented using the customer transaction and demographic data available in a given bank database.

Stack : Python, PySpark, XGBoost, AWS virtual servers.

PUBLICATIONS

- Chathuri Jayaweera and Gihan Dias. Automatic Classification, Visualization and Analysis of Errors in Machine Translation. In Extended Abstracts of International Conference on Information and Automation for Sustainability (ICIAFS), pages 43-44. IEEE, 2021.
- Sutharsan, Mahendren, Shehan Rajakaruna, S. Y. Jayaweera, J. A. C. M. Jayaweera, and Subramaniam Thayaparan. Vision-Based Adaptive Traffic Light Controller for Single Intersection. In proceedings of the International Conference on Information Technology Research (ICITR), pages. 1-6. IEEE, 2020.

ACADEMIC EXPERIENCE

AUG 2022 - PRESENT	Graduate Research Assistant (Research grant: DARPA INCAS) <i>The Natural Language Research & Culture (NLP&C) Laboratory</i> CISE, University of Florida
AUG - DEC 2022, 2023 JAN - APR 2023, 2024	Graduate Teaching Assistant <i>CAP4641 - Natural Language Processing</i> CISE, University of Florida
FEB 2020 - SEP 2021	Graduate Research Assistant (Research grant: AHEAD) <i>Natural Language Processing Center (NLPC)</i> CSE, University of Moratuwa
FEB 2020 - SEP 2021	Teaching Assistant <i>CSE, University of Moratuwa</i> CS2032 - Computer Communications CS3032 - Computer Networks

WORK EXPERIENCE

SEP 2021 - JUN 2022	Cognius.ai - AI Research Engineer Development of Intent Classification models for Conversational AI systems
JUNE - DEC 2018	Forestpin (Pvt.) Ltd. - Machine Learning Research Intern Building Sales Prediction models for Sales of supermarket outlets and implementing an Inventory management model

SKILLSET

Programming Languages:	Python R SQL Java
Softwares :	Weka Matlab SUMO
Familiar libraries and frameworks :	Pytorch XGBoost Opennmt-py Opennmt-tf Unity
Technical Skills :	Data Visualization, Preprocessing, Analysis and Modeling
Soft Skills :	Works well in team Good at problem solving Fast learner
Other :	LaTeX Git CSS Flask SolidWorks

AWARDS & ACHIEVEMENTS

2023:	CISE Graduate Student Scholarship, University of Florida
2015-2019:	Dean's Honour List for outstanding academic achievements in Semester 1, 2, 6, 7 and 8.
2015-2019:	Mahapola merit scholarship for outstanding performance in GCE Advanced Level by the government of Sri Lanka.
2018:	India's first Bank-led Datathon organized by Yes Bank, India - 1st runner up and Best Student team award
2018:	Hackstat 2018, a Datathon organized by the Stat Circle of University of Colombo - 1st Place
2014:	Sri Lankan Physics Olympiad Competition - Merit Award

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- IEEE WIE Member
- Institution of Engineers, Sri Lanka (IESL) member
- Rotaract club of University of Moratuwa (2016-2018)