Chathuri Jayaweera

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INTERESTS

⋄ **Natural Language Processing** ⋄ **Machine Learning** ⋄ **Explainable AI** ⋄ **Data Science**

EDUCATION

University of Florida	*Gainesville, Florida*
Ph.D. in Computer Science	2022-Present
Department of Computer and Information Science and Engineering	
GPA: 3.83/4.0	
University of Moratuwa	*Moratuwa, Sri Lanka*
Honours Degree of Bachelor of the Science of Engineering	2015-2019
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)	
DeepLearning.ai	*Coursera*
Neural Networks and Deep Learning	2019

SELECTED PROJECTS

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.

Traffic light control system with Reinforcement learning 2019-2020

Implementing a reinforcement learning agent to return adaptive traffic light time settings according to the existing traffic level.

Stack : Python, Tensorflow, SUMO traffic simulator, Q-Learning.

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.

Prediction model for customer check-ins for Hotel management 2018

Implementing a prediction model to predict the number of possible customer check-ins for a given day was designed and implemented to be used as a tool in hotel management processes.

Stack : Python, Microsoft Azure, XGBoost.

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 - Dec 2022 Jan - Apr 2023	Teaching Assitant *CAP4641 - Natural Language Processing* *Department Of Computer and Information Science and Engineering, University of Florida*
Feb 2020 - Sep 2021	Graduate Research Assistant (Research grant: AHEAD) *Natural Language Processing Center (NLPC)* *Department Of Computer Science and Engineering, University of Moratuwa* Natural Language Processing
Feb 2020 - Sep 2021	Teaching Assistant *Department Of Computer Science and Engineering, University of Moratuwa* 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

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
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.
2014:	Sri Lankan Physics Olimpiad 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)