

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: 3.83/4.0

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

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 <i>CAP4641 - Natural Language Processing</i>
	<i>Department Of Computer and Information Science and Engineering, University of Florida</i>
FEB 2020 - SEP 2021	Graduate Research Assistant (Research grant: AHEAD) <i>Natural Language Processing Center (NLPC)</i>
	<i>Department Of Computer Science and Engineering, University of Moratuwa</i> Natural Language Processing
FEB 2020 - SEP 2021	Teaching Assistant <i>Department Of Computer Science and Engineering, University of Moratuwa</i>
	CS2032 - Computer Communications CS3032 - Computer Networks

WORK EXPERIENCE

SEP 2021 - JUN 2022	Cognius.ai <i>AI Research Engineer</i>
	Development of Intent Classification models for Conversational AI systems
JUNE - DEC 2018	Forestpin (Pvt.) Ltd. <i>Machine Learning Research Intern</i>
	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)