Uvini Ranaweera

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Summary

I'm interested in developing Machine Learning algorithms and incorporating data analytics to contribute towards data-driven decision-making.

Research Interests: Natural Language Processing   Quantitative Engineering   Supervised Learning

Education

University of Moratuwa   Moratuwa, Sri Lanka
BBS. (Hons) Sp. Business Analytics (CGPA: 4.11/4.2)   Dec. 2019 - Present

- Thesis Title: "Multi-class Document Classification for Reports on Digital Development: A Case Study on USAID DEEM"
- Dean's List awardee of all semesters

Chartered Institute of Management Accountants   United Kingdom
CIMA Adv Dip in Management Accounting   Dec. 2019 - Present

The Association of Accounting Technicians   Sri Lanka
AAT Passed Finalist   Dec. 2015 - Dec. 2019

Rathnavali Balika Vidyalaya   Gampaha, Sri Lanka
GCE Advanced Level Examination (Z-score: 2.632)   Jun. 2011 - Aug. 2018

- Awardee of the "Most Outstanding Student" title for 2018"
- All-island second place in Commerce stream

Industrial Experience

Intern Specialised Solutions   Sep. 2023 - Present
Acuity Knowledge Partners   Sri Lanka

Conference Publications

[1] U. Ranaweera*, B. Mawitagama, S. Liyanage, S. Keshan, T. de Silva, and S. Hewawalpita, "Comparison of Machine Learning Models to Classify Documents on Digital Development," in Communications in Computer and Information Science, Springer, Nov. 2023. https://doi.org/10.1007/978-981-99-7969-1_5

Research Activities

An Automated Application for e-documents Classification
Nov. 2022 - Nov. 2023

Supervised by Dr. Tiloka de Silva & Mr. Supun Gothama, UoM

- Proposed a One vs Rest Approach for multiclass classification of e-documents. Instead of using just one algorithm, the study explores how combining multiple algorithms can lead to better results, especially when dealing with documents that are not class-balanced.

Python   Natural Language Processing   Machine Learning   Deep Learning

Related Academic Projects

A Web Application for Sentiment Analysis of Customer Reviews
Apr. 2023

Semester 7 project for Text Analytics, UoM
View Project

- Fine-tuned a pre-trained Hugging Face transformer model for sentiment analysis of customer reviews received by a hotel in Sri Lanka.

Python   Natural Language Processing   PyTorch   Hugging Face   Streamlit

Web Application for Online Quizzes
Oct. 2022

Semester 6 project for Business Application Development, UoM
View Project

- Developed a web application that allows teachers to create quizzes and students to attempt quizzes.

Python   Django   HTML   CSS   Bootstrap   MySQL

Technical Skills

PROGRAMMING:	Python, R
VISUALISATION:	Power BI, Tableau
LIBRARIES:	NLTK, scikit-learn
WEB DESIGNING:	HTML, CSS, Bootstrap

Volunteer & Leadership

TEMPO MUSIC ACADEMY, EGYPT	Exchange Participant, AIESEC in Egypt	Mar. 2023
AIESEC INTERNATIONAL	Volunteer, Graphic Designer	2022-2023
ROTARACT CLUB OF UoM	Volunteer, Vice President Professional Development	2020-2023
FACULTY OF BUSINESS, UoM	Batch Representative	2019-2023
RATHNAVALI BALIKA VIDYALAYA	Deputy Head Prefect	2016-2017

References available upon request.