Supun **Abeysighe**

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Education

Purdue University	*West Lafayette, IN*
PhD (Computer Science)	*Aug. 2019 - Present*

- Researching in the broad field of AI

University of Moratuwa	*Sri Lanka*
BSc. Eng in Computer Science and Engineering	*Nov. 2014 - Dec. 2018*

- Current **GPA 4.06** out of 4.20
- Ranked 3rd from 123 students
- Dean's list award for all semesters (Should have a semester GPA of 3.8 or above to be in Dean's List)

Work Experience

Research Engineer	*Colombo, Sri Lanka*
WSO2 Inc.	*Jan. 2019 - Jul. 2019*

- Conducting research on using machine learning techniques to enhance the efficiency of self adaptive (auto tuning) systems which has the ability to configure and reconfigure itself to achieve optimum performance.

Research Assistant	*Singapore*
StatNLP Lab, Singapore University of Technology and Design (SUTD)	*Jun. 2017 - Dec. 2017*

- Researched in the field of Machine Learning, particularly in Natural Language Processing domain.
- Researched structured prediction with a non-decomposable loss, fake news detection using linguistic features and incorporating external evidence, deep learning, and traditional machine learning approaches.

Skills

Programming Languages	Python, Java, JavaScript, C++, C
Web Frameworks	Angular, AngularJS, JQuery, Node.js, Spring-boot, Bootstrap, Jhipster
Databases	MySQL, MongoDB
Machine Learning Frameworks	PyTorch, Scikit-learn, Keras, Tensorflow

Publications

ADAPT-T: An Adaptive Algorithm for Auto-Tuning Worker Thread Pool Size in Application Servers

Nilushan Costa, Malith Jayasinghe, Ajantha Atukorale, **Supun Abeysinghe**, Srinath Perera, Isuru Perera *2019*

International Symposium on Computers and Communications (ISCC), Barcelona, Spain [to appear]

Sentylic at IEST 2018: Gated Recurrent Neural Network and Capsule Network Based Approach for Implicit Emotion Detection

Prabod Rathnayaka, **Supun Abeysinghe**, Chamod Samarajeewa, Isura Manchanayake, Malaka Walpola *2018*

9th Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis, Brusssels, Belgium

Enhancing Decision Making Capacity in Tourism Domain Using Social Media Analytics

Supun Abeysinghe, Isura Manchanayake, Chamod Samarajeewa, Prabod Rathnayaka, Malaka J. Walpola,

Rashmika Nawaratne, Tharindu Bandaragoda, Damminda Alahakoon *2018*

Proceedings of International Conference on Advances in ICT for Emerging Regions, Colombo, LK.

Competition Awards

2018	**World Rank - 60 (Top 1.5%), Country Rank - 01**, IEEEXtreme v12.0 - IEEEXtreme is one of the largest worldwide competitive programing contest
2018	**5th Place**, Implicit Emotion Detection Shared Task, Organized as part of WASSA 2018 at EMNLP 2018
2018	**31st Place (Top 0.8%)**, DengAI: Predicting Disease Spread task, task was to predict the number of Dengue cases recorded
2018	**Champians**, MoraXtreme v3.0 - An internal 12 hour competitive programming competition

2016	**World Rank - 106 (Top 5%), Country Rank - 03**, IEEEXtreme v10.0 - IEEEXtreme is one of the largest worldwide competitive programing contest
2016	**First Place**, Code Breaker - Bethem Challenge: An island wide, 24 hour competitive programming contest organized by 99x Technologies, Sri Lanka.
2016	**Champians**, MoraXtreme v1.0 - An internal 12 hour competitive programming competition
2016	**Second Place**, AcesCoders v6.0: All island 12 hour competitive programming contest for undergrads. Ranked 2nd out of 102 teams

Projects

Enhancing Decision Making Capacity in Tourism Domain Using Social Media Analytics

HTTPS://GITHUB.COM/SENTYLIC   *2018*

- A platform which has the ability to extract reviews for any entity, identify aspects/topics discussed, find the sentiment expressed towards each aspect and extract emotions and visualize the insights (Research Project)
- Used Technologies: PyTorch, Keras, Tensorflow, Python, Flask, Java, Node.js
- Machine learning based research project

Sri Lanka Restaurant Reviews Search Index

HTTPS://GITHUB.COM/SMB564/CS4642-IR-RESTAURANTS   *2018*

- A search index for a scraped set of restaurants reviews was built using Apache Solr. Information Retrieval techniques have been employed to improve the performance of the retrieval model.
- Used Technologies: Apache Solr, Scrapy
- Information retrieval based project

Peer to Peer File Sharing System

DISTRIBUTED SYSTEMS MODULE PROJECT   *2018*

- A distributed P2P file sharing system which has an unstructured P2P overlay network
- Used Technologies: Python

Career Fair - CV Portal

HTTPS://GITHUB.COM/SMB564/CAREER-FAIR   *2018*

- A SharePoint add-in for sharing CVs of final year students with the industry prior to the career fair.
- Used Technologies: Share-Point, JavaScript, AngularJS

Internship Portal

HTTPS://GITHUB.COM/SMB564/INTERNSHIP-SHAREPOINT-ADDIN   *2017*

- A SharePoint add-in for sending the CVs of interns to their selected companies. Currently hosted at department SharePoint site.
- Used Technologies: Share-Point, JavaScript, AngularJS

CV Feedback Portal

HTTPS://GITHUB.COM/SMB564/CV-FEEDBACK-SHAREPOINT-ADD-IN   *2016*

- A web-based system where CVs of undergraduates are reviewed by the Alumni members of the department. Currently hosted at department SharePoint site.
- Used Technologies: Share-Point, JavaScript, AngularJS

UniConnect System

HTTPS://GITHUB.COM/SMB564/UNICONNECT   *2016*

- UniConnect is an academic resource sharing and opportunity seeking web system for undergraduate students
- Used Technologies: Java Spring-Boot, AngularJS, MongoDB, JHipster

Tank Game Client

HTTPS://GITHUB.COM/SMB564/TANK-GAME   *2016*

- A game client that will connect and play with a Tank Game server. A game playing AI and game graphics were implemented
- Used Technologies: C#, Unity

ERP System for Kandy Plastics PVT(LTD)

                                                                                                                 2016

- An online system to monitor energy consumption and an online portal to manage and perform customer transactions
- Used Technologies: Qt Framework, C++