

Supun Abeysinghe

Computer Science and Engineering Undergraduate

A tech enthusiast who has a craving for coding. Has good analytical skills and ability to adapt to any technology in a quick succession. Likes working with the cutting edge plus enjoy research. Self-learner and loves algorithmic problem-solving. Possess research experience and passionate about the field of natural language processing and has experience in application development as well.



✉ supun.14@cse.mrt.ac.lk

☎ +9471701897

in /supunabeysinghe

🔗 smb564

🏠 <https://supun.online/>

EDUCATION

University of Moratuwa [2014 – 2018]

BSc. Eng. in Computer Science and Engineering

Current **GPA 4.02** out of 4.2, Dean's list award for all semesters up to now (1,2,3,4,5, and 6)

Ranabima Royal College, Kandy

[2005 – 2013]

G.C.E. Advanced Level, 64th in Sri Lanka with Distinction (A) passes for Combined Mathematics, Physics, and Chemistry.

Chartered Institute of Management Accountants (CIMA) [2013 - 2014]

CIMA Diploma in Management Accounting

AWARDS AND ACHIEVEMENTS

IEEEEXtreme v10.0 - Country Rank 3rd [2016] (Team)

IEEEEXtreme is one of the largest worldwide competitive programming contests. Country rank – 3rd, Global rank - 106th

Implicit Emotion Detection Shared Task - 5th Place [2018] (Team)

Task was to predict the emotions expressed in text, without having explicit mentions of emotion related terms. Ranked 5th among contestants from top universities all around the world

DengAI: Predicting Disease Spread - 31st Place (Top 0.8%) [2018] (Team)

The task was to predict the number of Dengue cases recorded in two cities San Juan and Iquitos of Peru.

Code Breaker - Bethem Challenge - First Place [2016] (Individual)

24 hour competitive programming contest organized by 99x Technologies, Sri Lanka. Obtained the **1st place** among 78 undergrads from universities island wide

MoraXtreme v1.0 Champions [2016] (Team)

An internal 12 hour competitive programming competition. Ranked **1st** from 60 teams from university of Moratuwa

AcesCoders v6.0 Runners Up [2016] (Team)

All island 12 hour competitive programming contest for undergrads. Ranked **2nd** out of 102 teams

HackerRank Contest - 1 Gold, 7 Silver, 5 Bronze [2016] (Individual)

HackerRank is an online competitive programming contest hosting platform. Medals awarding scheme – Gold - top 4%, Silver - top 8% and Bronze - top 13%

WORK EXPERIENCE

Research Assistant [Jun. 2017 – Dec. 2017]

StatNLP Lab, Singapore

Conducted research in NLP and involved in testing StatNLP framework. Researched about structured prediction with non-decomposable loss (Searn Algorithm), fake news detection using linguistic features and incorporating external evidence, deep learning and traditional machine learning approaches.

Teaching Assistant [Aug. 2018 – Present]

University of Moratuwa

Working as a teaching assistant for CS2022-Data Structures and Algorithms module

Freelance Developer [2016 – 2017]

Involved in application development projects as a freelance developer. Worked part time for igoagain.com and Lunahlabs (a service providing startup)

VOLUNTEER EXPERIENCE

Secretary [2017]

Computer Society, IEEE Student Branch, University of Moratuwa

Involved in challenge creation for all island and intra university competitive programming contest, conducted several awareness sessions

PUBLICATIONS

Prabod Rathnayaka, Supun Abeysinghe, Chamod Samarajeewa, Isura Manchanayake, Malaka Walpola (2018): Sentylic at IEST 2018: Gated Recurrent Neural Network and Capsule Network Based Approach for Implicit Emotion Detection

To appear in proceedings of 9th Workshop on Computational Approaches to Subjectivity, Sentiment & Social Media Analysis (WASSA) (Poster)

Supun Abeysinghe, Isura Manchanayake, Chamod Samarajeewa, Prabod Rathnayaka, Malaka J. Walpola, Rashmika Nawaratne, Tharindu Bandaragoda, Daminda Alahakoon (2018): Enhancing Decision Making Capacity in Tourism Domain Using Social Media Analytics

To appear in proceedings of 18th International Conference of Advances in ICT for Emerging Regions (ICTer2018)

PROJECTS

Enhancing Decision Making Capacity in Tourism Domain Using Social Media Analytics

[2018]
<https://github.com/sentylic>
(Final Year Project)

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)
(2 publications as of now)

PyTorchTensorflowKerasPythonFlask

JavaNode.jsAspect Extraction

NLPDeep Learning

Aspect Based Sentiment AnalysisEmotion Detection

Sri Lanka Restaurant Reviews Search Index

[2018]
<https://github.com/smb564/CS4642-IR-Restaurants>
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.

Apache SolrInformation RetrievalScrapy

Internship Portal

[2017]
<https://github.com/smb564/Internship-sharepoint-addin>
A SharePoint add-in for sending the CVs of interns to their selected companies. Currently hosted at department SharePoint site.

AngularJSSharePoint JSOM

CV Feedback Portal

[2016]
<https://github.com/smb564/CV-Feedback-SharePoint-Add-in>
A web-based system where CVs of undergraduates are reviewed by the Alumni members of the department. Currently hosted at department SharePoint site.

JQuerySharePoint JSOM

UniConnect

[2017]
<https://github.com/smb564/UniConnect>
UniConnect is an academic resource sharing and opportunity seeking web system for undergraduate students.

Spring-BootAngularJSMongoDBJHipster

Tank Game Client

[2016]
<https://github.com/smb564/Tank-Game>
A game client that will connect and play with a Tank Game server. A game playing AI and game graphics were implemented

C#Unity

Energy Monitoring System

[2016]
<https://github.com/smb564/Energy-Monitoring-System>
An online system to monitor energy consumption and an online portal to manage and perform customer transactions

AngularJSNode.jsMySQL

ERP System for Kandy Plastics PVT(LTD)

[2016]
An ERP system which has the ability to manage the complete workflow of the company

Qt FrameworkC++

SKILLS

Programming Languages

PythonJavaJavaScriptC++CC#

Web/application Frameworks

AngularAngularJSSpring-BootNode.jsJQuery

BootstrapJHipster

Databases

MySQLMongoDB

Machine Learning Frameworks

PyTorchTensorflowKerasScikit-learnPandas

XGBoostStatsmodels

Interested Areas

Natural Language ProcessingMachine Learning

Deep LearningInformation Retrieval

Programming LanguagesDistributed Systems

PROFESSIONAL AFFILIATIONS

IEEE Student Member

[2015-Present]
Institute of Electrical and Electronic is the world's largest technical professional organization

IESL Student Member

[2017-Present]
The Institution of Engineers Sri Lanka is the main governing body of engineers in Sri Lanka

REFERENCES

Dr. Malaka J. Walpola

PhD (FIU), MS (FIU), BSc Eng. (Hons) (Moratuwa)
Senior Lecturer at the Department of Computer Science and Engineering
University of Moratuwa
malaka@cse.mrt.ac.lk
(Final Year Project group supervisor)