

YASAS SENARATH

Doctoral Student / Graduate Research Assistant

George Mason University, Fairfax, Virginia, USA

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EDUCATION

Volgenau School of Engineering

George Mason University, United States

Aug. 2019 Present

Current CGPA: 4.0/4.0

- Ph.D. Student (Information Technology)
- Lab: Humanitarian, Semantics and Informatics Lab

Department of Computer Science and Engineering

University of Moratuwa, Sri Lanka

Jan. 2014 Jan. 2018

Overall GPA: 3.95/4.20

- Honours Degree of Bachelor of Science of Engineering
- Enlisted in Dean's List in all semesters in the Department of Computer Science and Engineering

EXPERIENCE

Graduate Research Assistant

Humanitarian, Semantics and Informatics Lab (Human-Info-Lab)

Aug. 2019 - Present

George Mason University, US

- Analyze Natural and Societal Crises in Social Media.

Graduate Research Assistant

Data Science, Engineering and Analytics Research Hub (DataSEARCH) University of Moratuwa, LK

Jan. 2018 - Jul. 2019

- Research on Fine Grained Emotion Analysis of Tweets

Visiting Instructor

Department of Computer Science and Engineering

Jan. 2018 - Jul. 2019

University of Moratuwa, LK

- Visiting Instructor of Subjects: Machine Learning, Data Science, Advanced Algorithms, Data Structures and Algorithms, Object Oriented Programming, Presentation Skills

Trainee Software Engineer

Undergraduate Internship

Jul. 2016 - Dec. 2016

CodeGen International (PVT) Ltd., LK

- Research on Opinion Extraction of Reviews on Points of Interest (POI).

RESEARCH PROJECTS

Identifying Hate Intent in Social Media Streams

Graduate Research Assistant, Human-Info-Lab

Aug. 2019 - Present

George Mason University, VA, USA

- Study on identifying specific types of hate speech in social media.

Affect Level Opinion Mining of Twitter Stream

Graduate Research Assistant, DataSEARCH

Jan. 2018 - Jul. 2019

University of Moratuwa, Sri Lanka

- Studied the impact of multiple word embedding models to measure emotional intensity in tweets
- Initiated sub-project to construct a tweet corpus for emotional analysis in Sinhalese

Aspect Based Sentiment Analysis

Undergraduate, Final Year Project

Jan. 2017 - Dec. 2017

University of Moratuwa, Sri Lanka

- Developed supervised aspect extraction techniques combined with superior pre-processing and features.
- Experimented on the capabilities of deep learning techniques such as CNN and RNN for aspect extraction.

PUBLICATIONS

Evaluating Semantic Feature Representations to Efficiently Detect Hate Intent on Social Media

Y Senarath, H Purohit

IEEE International Conference on Semantic Computing (IEEE-ICSC) 2020

- Presents an Extensive Empirical Analysis of Features for Detecting Hate Speech on Social Media.

ACTSEA: annotated corpus for Tamil Sinhala emotion analysis

R Jenarthanan, **Y Senarath**, U Thayasivam

Moratuwa Engineering Research Conference (MERCon) 2019

- Presents a dataset and analysis on using keyword based emotion analysis for two low resource languages in Sri Lanka.

A Hybrid Approach for Aspect Extraction from Customer Reviews

Y Senarath, N Jihan, S Ranathunga

International Journal on Advances in ICT for Emerging Regions 2019

- Presents a Mixture of Classifiers Model for Aspect Extraction.

DataSEARCH at IEST 2018: Multiple Word Embedding based Models for Implicit Emotion Classification of Tweets with Deep Learning

Y Senarath, U Thayasivam

Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis (WASSA) 2018

- Presents a Novel Deep Learning Model for Implicit Emotion Identification.

Aspect Extraction from Customer Reviews Using Convolutional Neural Networks

N Jihan, **Y Senarath**, S Ranathunga

International Conference of Advances in ICT for Emerging Regions (ICTer) 2018

- Presents a Multi-Channel Convolutional Neural Network for Aspect Category Detection in Aspect Based Sentiment Analysis.

Multi-Domain Aspect Extraction using Support Vector Machines

N Jihan, **Y Senarath**, D Tennekoon, M Wickramaratne, S Ranathunga

Conference on Computational Linguistics and Speech Processing (ROCLING) 2017

- Presents an Aspect Extraction Technique Based on Support Vector Machines and a set of Novel Features.

HONORS AND AWARDS

CINTEC Award

2018

- Awarded for the undergraduate with the highest grade for the Final Year Project at Department of Computer Science and Engineering , University of Moratuwa, Sri Lanka.

Gold Award for Most Outstanding Digital Communication Project

2018

- Awarded by Rotaract District 3220 Sri Lanka & Maldives at the 28th Rotaract District Assembly held on 08/07/2018 for the Community project TrainLK.