YASAS SENARATH

Doctoral Student / Graduate Research Assistant

George Mason University, Fairfax, Virginia, USA

☎ (+1) 703 947 7833 ⋄ ✉ ywijesu@gmu.edu ⋄ 🖥 ysenarath.com ⋄ in ypsenarath ⋄ ⌗ ysenarath

INTERESTS

Information Extraction, Explainable Artificial Intelligence, Data Science, Applied Machine Learning, Natural Language Understanding

EDUCATION

Volgenau School of Engineering   Aug. 2019 Present
George Mason University, United States   *Current CGPA: 4.0/4.0*

- PhD Student (Information Technology)
- Lab: Humanitarian, Semantics and Informatics Lab

Department of Computer Science and Engineering   Jan. 2014 Jan. 2018
University of Moratuwa, Sri Lanka   *Overall GPA: 3.95/4.20*

- B.Sc. Eng. (Hons.) - 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   Aug. 2019 - Present
Humanitarian, Semantics and Informatics Lab (Human-Info-Lab)   *George Mason University, US*

- Analyze Natural and Societal Crises in Social Media.
- Hate Speech Identification - Research Focus: Using Knowledge Bases for Designing Generalized Models.

Graduate Research Assistant   Jan. 2018 - Jul. 2019
Data Science, Engineering and Analytics Research Hub (DataSEARCH) University of Moratuwa, LK

- Research on Fine Grained Emotion Analysis of Tweets (Emotion Intensity Prediction)
- Implicit Emotion Classification - Identification of Emotions in Social Media Text (Twitter) when the Words Indicating the Emotion are not Present
- Participated in WASSA-2018 Implicit Emotion Shared Task (Rank 8th / 30 participants)

Visiting Instructor   Jan. 2018 - Jul. 2019
Department of Computer Science and Engineering   *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   Jul. 2016 - Dec. 2016
Undergraduate Internship   *CodeGen International (PVT) Ltd., LK*

- Opinion and Entity Extraction from Reviews Related to Tourist Attractions.

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 Wickramarathne, 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.