YASAS SENARATH

Ph.D. Student / Graduate Research Assistant

George Mason University, Fairfax, Virginia, USA

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INTERESTS

Social Computing, Disaster Informatics, Data Mining, Natural Language Understanding

EDUCATION

College of Engineering and Computing George Mason University, United States	Aug 2019 – Present CGPA: 3.97/4.0
 Ph.D. (Information Technology), Advisor: Dr. Hemant Purohit Humanitarian Informatics Lab 	
Department of Computer Science and Engineering University of Moratuwa, Sri Lanka	Jan 2018 – Jun 2019 Overall GPA: 4.20/4.20
 M.Sc. – Research based M.Sc. in Data Science DataSEARCH: Data Science, Engineering and Analytics Research Hub 	
Department of Computer Science and Engineering University of Moratuwa, Sri Lanka	Jan 2014 – Jan 2018 Overall GPA: 3.95/4.20
 B.Sc. Eng. (Hons.) – Honours Degree of Bachelor of Science of Engineeri Enlisted in dean's list in all semesters in the Department of Computer Science of Computer Scien	
EXPERIENCE	
Graduate Research Assistant	Aug 2019 – Present
Humanitarian Informatics Lab (Human-Info-Lab) G	eorge Mason University, US
 Analyze human behavior from social media data related to natural hazard typing, hate-based violence) for decision support in government agencies. <i>Research Focus</i>: (1) Using knowledge bases to improve context understation classification models. (2) Mining intentional behavior on social media relation 	nding of deep learning base
Graduate Research Assistant Center for Climate Change Communication G	Jun 2021 – Aug 2021 eorge Mason University, US
\cdot Analyzed the effectiveness of educational events related to Climate Change the divergence in the communication behavior of participants using their over time.	
Graduate Research Assistant Data Science, Engineering and Analytics Research Hub (DataSEARCH)	Jan 2018 – Jul 2019 University of Moratuwa, LK
\cdot Researched on methods for fine-grained emotion detection in Tweets usin	g transfer learning.

• Attained 8th rank out of 30 participants in Implicit Emotion Shared Task at WASSA-2018 while outperforming the baseline by 8%.

Department of compater Setence and Engineering		
· Visiting Instructor of Subjects: Data Science, Adva	anced Algorithms, Data Structures	
Trainee Software Engineer Undergraduate Internship	Jul 2016 – Dec 2016 CodeGen International (PVT) Ltd., LK	
\cdot Opinion and Entity Extraction from reviews relate	d to tourist attractions.	
UBLICATIONS		
 Practitioner-Centric Approach for Early In for Emergency Services Y Senarath, A Mukhopadhyay, S M Vazirizade, H Accepted at the 21st IEEE International Conference 	H Purohit, S Nannapaneni, and A Dubey	
Mining Risk Behaviors from Social Media for Y Senarath, S Peterson, H Purohit, A L Hughes, International Conference on Social Computing, Be Behavior Representation in Modeling and Simulati	K K Stephens havioral-Cultural Modeling, Prediction and	
 Evaluating the Relevance of UMLS Knowled Disasters Y Senarath, J L Chan, H Purohit, O Uzuner 18th International Conference on Information System (ISCRAM) 		
Towards a Design of Resilience Data Reposi H L Nguyen, Y Senarath , H Purohit, R Akerkar 18 th International Conference on Information Syst (ISCRAM)		
Online-Computer-Mediated Interviews and Establishing Best Practices in a Human-AI K K Stephens, K Nader, A G Harris, C Montagnolo 54 th The Hawaii International Conference on System	Teaming Context o, A L Hughes, S A Jarvis, Y Senarath, H Purohit	
Efficient Detection of Multilingual Hate Spe with Minimal Human Feedback F Vitiugin, Y Senarath, H Purohit 13 th ACM Web Science Conference	eech by Using Interactive Attention Network	
 Emergency Incident Detection from Crowdso Fusion Y Senarath, S Nannapaneni, H Purohit, A Duber IEEE/WIC/ACM International Joint Conference Technology (WI-IAT) 	y y	
 Evaluating Semantic Feature Representation Media Y Senarath, H Purohit <i>IEEE</i> 14th International Conference on Semantic 6 		
ACTSEA: annotated corpus for Tamil & Sin R Jenarthanan, Y Senarath, U Thayasivam Moratuwa Engineering Research Conference (MER	hala emotion analysis	

Jan 2018 – Jul 2019

University of Moratuwa, LK

Visiting Instructor

Department of Computer Science and Engineering

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
 DataSEARCH at IEST 2018: Multiple Word Embedding based Models for tion Classification of Tweets with Deep Learning Y Senarath, U Thayasivam 9th Workshop on Computational Approaches to Subjectivity, Sentiment and Social Me (WASSA) 	-
Aspect Extraction from Customer Reviews Using Convolutional Neural Neural Neural Neural Neural Neural Neural, S Ranathunga International Conference of Advances in ICT for Emerging Regions (ICTer)	etworks 2018
Multi-Domain Aspect Extraction using Support Vector Machines N Jihan, Y Senarath, D Tennekoon, M Wickramarathne, S Ranathunga 29 th Conference on Computational Linguistics and Speech Processing (ROCLING) OPEN-SOURCE PROJECTS	2017
$\mathbf{SinLing}^1$	2019
 Primary contributor of the only toolbox for Sinhalese language processing. Includes Tokenizer, Stemmer, POS-Tagger, Morphological Analyzers. 	
$\mathbf{TextFlow}^2$	2020
Primary contributor of annotation framework for natural language processing. TextFl in CitizenHelper 3 .	ow is being used
HONORS AND AWARDS	
CINTEC Award	2018
· Awarded for the highest graded final year project at Department of Computer Science a University of Moratuwa, Sri Lanka.	and Engineering,
Gold Award for Most Outstanding Digital Communication Project	2018
\cdot Awarded by Rotaract District 3220 Sri Lanka & Maldives at the 28th rotaract distriction 08/07/2018 for the community project TrainLK.	ct assembly held
SKILLS	

Technical Skills Python, PyTorch, Keras, Scikit-learn, Pandas, Numpy, JavaScript Teamwork, Time Management, Communication, Presentation Soft Skills

¹https://github.com/ysenarath/sinling

 $^{^{2}} https://github.com/ysenarath/textflow$

³https://citizenhelper.orc.gmu.edu/