Devamanyu HAZARIKA

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BRIEF INTRODUCTION

I am a fourth-year Computer Science PhD candidate at National University of Singapore, advised by Dr. Roger Zimmermann and Dr. Soujanya Poria.

I am supported by the President's Graduate Fellowship and afiliated with Media Management Research Lab and Deep Cognition and Language Research Lab.

RESEARCH INTERESTS

Broad Interests	Natural Language Processing, Multimodal Machine Learning, Domain Adaptation
Applications	Dialogue Systems, Affective Computing, Sarcasm Analysis.

EDUCATION

CURRENT 2017-	**National University of Singapore** Ph.D. Candidate in Computer Science Advisor: Roger Zimmermann	GPA: 4.75/5
2013-2017	**National Institute of Technology, Warangal** B.Tech. in Computer Science and Engineering Thesis: "Benchmarking Multimodal Sentiment Analysis" Advisor: RBV Subramaanyam	GPA: 9.56/10 Gold Medal

RESEARCH INTERNSHIPS

SEPT- 2020 (ongoing)	Amazon Alexa AI, Sunnyvale USA *Applied Scientist II, Intern* Dialogue Systems Mentored by: Mahdi Namazifar, Dilek Hakkani-Tur	
MAY-JUL 2019 2016	Nanyang Technological University, Singapore *Research Assistant* Emotion Recognition in Conversations, Sarcasm Analysis using CNNs Advised by: Soujanya Poria, Erik Cambria	

Honors and Awards

2021	IEEE CIM Outstanding Paper Award
2019-2021	President's Graduate Fellowship, National University of Singapore
2019	Research Achievement Award, School of Computing, NUS
2017-2019	NUS Research Scholarship, National University of Singapore
2017	Department Gold Medal (Computer Science), NIT, Warangal
2015	Summer Research Fellow, Indian Academy of Sciences
2014	Alumni's Gold Medal for Scholastic Excellence, NIT, Warangal

Teaching

2019-2020	CS 3243: Intro to Artificial Intelligence
2018-19	
2017-18	CS 2113: Software Engineering

Academic Publications

Pre-prints

2021	*Recognizing Emotion Cause in Conversations*, S Poria, N Majumder, **Devamanyu Hazarika**, D Ghosal, R Bhardwaj, S Jian, R Ghosh, N Chhaya, A Gelbukh, and R Mihalcea
	Domain Divergences: a Survey and Empirical Analysis, AR Kashyap, **Devamanyu Hazarika**, MY Kan, and R Zimmermann

Conferences

2021	*Domain Divergences: a Survey and Empirical Analysis*, AR Kashyap, **Devamanyu Hazarika**, Min-Yen Kan, and R Zimmermann, NAACL 2021
2020	*MISA: Modality-Invariant and -Specific Representations for Multimodal Sentiment Analysis*, **Devamanyu Hazarika**, R Zimmermann, and S Poria, ACM MM 2020
	Methods for Numeracy-Preserving Word Embeddings, D Sundararaman, S Si, V Subramanian, G Wang, **Devamanyu Hazarika**, and L Carin, EMNLP 2020
	KinGDOM: Knowledge-Guided DOMain adaptationfor sentiment analysis, D Ghosal, **Devamanyu Hazarika**, N Majumder, A Roy, S Poria, and R Mihalcea, ACL 2020
2019	*Towards Multimodal Sarcasm Detection (An Obviously Perfect Paper*, S Castro, **Devamanyu Hazarika**, V Pérez-Rosas, R Zimmermann, R Mihalcea, and S Poria, ACL 2019
	MELD: A Multimodal Multi-Party Dataset for Emotion Recognition in Conversations , S Poria, **Devamanyu Hazarika**, N Mazumder, G Naik, E Cambria, and R Mihalcea, ACL 2019
	DialogueRNN: An Attentive RNN for Emotion Detection in Conversations , N Mazumder, S Poria, **Devamanyu Hazarika**, R Mihalcea, A Gelbukh, and E Cambria, AAAI 2019

2018	*ICON: Interactive Conversational Memory Network for Multimodal Emotion Detection* , **Devamanyu Hazarika**, S Poria, R Mihalcea, E Cambria, and R Zimmermann, EMNLP 2018

CASCADE: Contextual Sarcasm Detection in Online Discussion Forums, **Devamanyu Hazarika**, S Poria, S Gorantla, E Cambria, R Zimmermann, and R Mihalcea, COLING 2018

CMN: Conversational Memory Network for Emotion Recognition in Dyadic Dialogue Videos, **Devamanyu Hazarika**, S Poria, A Zadeh, E Cambria, L.P. Morency, and R Zimmermann, NAACL 2018

Modeling Inter-Aspect Dependencies for Aspect-Based Sentiment Analysis, **Devamanyu Hazarika**, S Poria, P Vij, G Krishnamurthy, E Cambria, and R Zimmermann, NAACL 2018

SenticNet 5: Discovering conceptual primitives for sentiment analysis by means of context embeddings, E Cambria, S Poria, **Devamanyu Hazarika**, and K Kwok, AAAI 2018

Multi-level multiple attentions for context-aware multimodal sentiment analysis, S Poria, E Cambria, **Devamanyu Hazarika**, N Mazumder, A Zadeh, and L.P. Morency, ICDM 2017

Context-dependent sentiment analysis in user-generated videos, S Poria, E Cambria, **Devamanyu Hazarika**, N Mazumder, A Zadeh, and L.P. Morency, ACL 2017

A Deeper Look into Sarcastic Tweets using Deep Convolutional Neural Networks, S Poria, E Cambria, **Devamanyu Hazarika**, and P Vij, COLING 2016

Journals

2020	*Conversational Transfer Learning for Emotion Recognition*, **Devamanyu Hazarika**, S Poria, R Zimmermann, and R Mihalcea, INFORMATION FUSION 2020
2018	*Recent Trends in Deep Learning Based Natural Language Processing*, T Young, **Devamanyu Hazarika**, S Poria, and E Cambria, IEEE COMPUTATIONAL INTELLIGENCE MAGAZINE 2018 (IEEE CIM OUTSTANDING PAPER AWARD)

Multimodal Sentiment Analysis: Addressing Key Issues and Setting up Baselines, S Poria, N Mazumder, **Devamanyu Hazarika**, E Cambria, A Hussain, and A Gelbukh, IEEE INTELLIGENT SYSTEMS 2018

Multimodal Sentiment Analysis using Hierarchical Fusion with Context Modeling, N Majumder, **Devamanyu Hazarika**, A Gelbukh, E Cambria and S Poria, KNOWLEDGE BASED SYSTEMS 2018

Research Impact and Coverage

Bibliometrics	Google Scholar citations: **3039**; h-index: **16** Semantic Scholar citations: **2554**; h-index: **16**
Emotion Analysis	https://paperswithcode.com/newsletter/2
Deep-learning for NLP	https://nlpoverview.com https://www.kdnuggets.com/2018/06/ detecting-sarcasm-deep-convolutional-neural-networks.html
Sarcasm Analysis	https://www.kdnuggets.com/2018/09/ deep-learning-nlp-overview-recent-trends.html

Professional Services

Professional Positions	Volunteer Chair, SSNLP 2019 *SEMconference, NAACL 2019
Program Committee Member	**ACL** 2018, 2019, 2020, 2021 **EMNLP** 2019, 2020 **NAACL** 2019, 2021 **COLING** 2018, 2020 **AAAI** 2018, 2019, 2020 **ACMMM** 2019, 2020 **ICME** 2021
Journal Reviewer	Cognitive Computation, Computational Intelligence Magazine, Information Fusion, Transactions of Affective Computing, Transactions on Audio, Speech and Language Processing

Interests and Activities

President	ACM Student Chapter, NIT Warangal 2015-17 Organized several workshops to promote computer science amongst junior students.
Executive Member	Music Club, NIT Warangal Bachelor of Music in Hindustani Classical Music.
Sports	Tennis, National School Games 2007