Devamanyu **Hazarika**

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Summary

I am a second year Ph.D. student at the School of Computing, National University of Singapore. I am advised by Prof. Roger Zimmermann and a member of the Media Management Research Lab. Previously, I received my Bachelor's degree in Computer Science from National Institute of Technology, Warangal where I received the Department Gold Medal.

My interests span the fields of Natural Language Processing and Machine Learning. Primarily, I research in Multimodal Affective Computing with an emphasis on exploring emotion dynamics in conversational videos and understanding sarcasm in text.

Education

Singapore *Aug. 2017 - Present*	**National University of Singapore** PH.D. IN COMPUTER SCIENCE • Advisor: Roger Zimmermann | Natural Language Processing | Multimodal Sentiment Analysis | GPA: 4.75/5
Warangal, India *Aug. 2013 - May. 2017*	**National Institute of Technology, Warangal** B.TECH. IN COMPUTER SCIENCE AND ENGINEERING • Thesis: Benchmarking Multimodal Sentiment Analysis | GPA: 9.56/10 | Gold Medal

Internships

Nanyang Technological University *Singapore*

RESEARCH ASSISTANT *May. 2016 - July. 2016*

• A Deeper Look into Sarcastic Tweets using Deep Convolutional Neural Networks | Guide: Prof. Erik Cambria

Indian Institute of Technology, Guwahati *India*

RESEARCH ASSISTANT *May. 2015 - July. 2015*

• Distributed Algorithm for Gathering of Oblivious Robots in Asynchronous Setting | Guide: Dr. P. S. Mandal

Publications

CONFERENCE PAPERS

2019 – **Multi-task Learning for Detecting Stance in Tweets**
<u>Devamanyu Hazarika</u>, G Krishnamurthy, S, and R Zimmermann *CICling 2019, La Rochelle, France*

– **DialogueRNN: An Attentive RNN for Emotion Detection in Conversations**
N Mazumder, S Poria, <u>Devamanyu Hazarika</u>, R Mihalcea, A Gelbukh, E Cambria *AAAI 2019, Honolulu, Hawaii*

2018 – **ICON: Interactive Conversational Memory Network for Multimodal Emotion Detection**
<u>Devamanyu Hazarika</u>, S Poria, R Mihalcea, E Cambria, R Zimmermann *EMNLP 2018, Brussels, Belgium*

– **CASCADE: Contextual Sarcasm Detection in Online Discussion Forums**
<u>Devamanyu Hazarika</u>, S Poria, S Gorantla, E Cambria, R Zimmermann, R Mihalcea *COLING 2018, New Mexico, USA*

– **Modeling Inter-Aspect Dependencies for Aspect-Based Sentiment Analysis**
<u>Devamanyu Hazarika</u>, S Poria, P Vij, G Krishnamurthy, E Cambria, R Zimmermann *NAACL 2018, New Orleans, USA*

– **Conversational Memory Network for Emotion Recognition in Dyadic Dialogue Videos**
<u>Devamanyu Hazarika</u>, S Poria, S Zadeh, E Cambria, LP Morency, R Zimmermann *NAACL 2018, New Orleans, USA*

– **Self-Attentive Feature-level Fusion for Multimodal Emotion Detection**
<u>Devamanyu Hazarika</u>, S Gorantla, S Poria, R Zimmermann *MR2AMC 2018, Miami, USA*

– **Aspect-Sentiment Embeddings for Company Profiling and Employee Opinion Mining**
<u>Devamanyu Hazarika</u>, R Bajpai, K Singh, S Gorantla, E Cambria, R Zimmermann *CICLing 2018, Hanoi, Vietnam*

– **SenticNet 5: Discovering conceptual primitives for sentiment analysis by means of context embeddings**
E Cambria, S Poria, <u>Devamanyu Hazarika</u>, K Kwok *AAAI 2018, New Orleans, USA*

2017 — **Multi-level multiple attentions for context-aware multimodal sentiment analysis**
S Poria, E Cambria, Devamanyu Hazarika, N Mazumder, A Zadeh, L Morency   *ICDM 2017, New Orleans, USA*

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

— **Texture and Structure Incorporated ScatterNet Hybrid Deep Learning Network (TS-SHDL) For Brain Matter Segmentation**
A Singh, Devamanyu Hazarika, A Bhattacharya   *ICCVW 2017, Venice, Italy*

— **Benchmarking Multimodal Sentiment Analysis**
E Cambria, Devamanyu Hazarika, S Poria, A Hussain, RBV Subramaanyam   *CICling 2017, Budapest, Hungary*

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

Journal Papers

2018 — **Recent Trends in Deep Learning Based Natural Language Processing**
T Young, Devamanyu Hazarika, S Poria and E Cambria   *IEEE Computational Intelligence Magazine*

— **Multimodal Sentiment Analysis: Addressing Key Issues and Setting up Baselines**
S Poria, N Majumder, Devamanyu Hazarika, E Cambria, A Hussain and A Gelbukh   *Cognitive Computation*

— **Multimodal Sentiment Analysis using Hierarchical Fusion with Context Modeling**
N Majumder, Devamanyu Hazarika, A Gelbukh, E Cambria and S Poria,   *Knowledge Based Systems*

Honors & Awards

2019   **Research Achievement Award**
School of Computing, NUS

2017-2021 **NUS Research Scholarship**
National University of Singapore

2017   **Department Gold Medal (Computer Science)**
National Institute of Technology, Warangal

2015   **Summer Research Fellowship Programme**
Indian Academy of Sciences

2014   **RECW Alumni's America's Chapter Gold Medal for scholastic excellence.**
National Institute of Technology, Warangal

Teaching

2017-18 **CS 2103: Software Engineering**
Delivering tutorials

2018-19 **CS 2113: Software Engineering**
Delivering tutorials

Skills

• **Programming languages:** *C, C++, Java, Python*, **Database:** *MySQL*
• **Deep Learning Toolkits:** Tensorflow, Keras.
• **OS:** Windows, Linux (Ubuntu).
• **Typography:** LATEX, Microsoft Office.

Professional Services

• Website-admin: ***SEM conference**, NAACL, 2019
• PC-Member: **NAACL** 2019 , **AAAI** 2019
• PC-Member: **EMNLP** 2018, **COLING** 2018
• Reviewer: **Cognitive Computation**, CIACSA

Extracurricular Activity

ACM Student Chapter, NITW, India   *NIT Warangal, India*

President   *2015-16, 2016-17*

• Headed the ACM student chapter for two years.
• Organized several workshops to promote computer science amongst junior students.

Music Club, NITW   *NIT Warangal, India*

2014-15, 2015-16, 2016-17

- Bachelor of Music in Hindustani Classical Music.
- Vocalist | Pianist | Amateur guitarist.

Sports - Tennis   *India*

National level   *2006-2009*

- National School Games 2007