Devamanyu **Hazarika**

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Summary

I am a third 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 • Natural Language Processing| Emotion Recognition in Conversations | 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. 2019 - July. 2019*

• Emotion Recognition in Conversations \| Guide: Dr. Soujanya Poria

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

Honors & Awards

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)** 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

Publications

CONFERENCE PAPERS

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, Florence, Italy

– **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, Florence, Italy

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

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

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

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

– **Modeling Inter-Aspect Dependencies for Aspect-Based Sentiment Analysis**
Devamanyu Hazarika, 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**
Devamanyu Hazarika, S Poria, S Zadeh, E Cambria, LP Morency, R Zimmermann
NAACL 2018, New Orleans, USA

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

– **Aspect-Sentiment Embeddings for Company Profiling and Employee Opinion Mining**
Devamanyu Hazarika, 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, Devamanyu Hazarika, 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

Teaching

2019-20 **CS 3243: Intro to Artificial Intelligence**
Course material prep | Delivering tutorials

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

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

Skills

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

Professional Services

- Website-admin: ***SEM conference**, NAACL, 2019
- PC-Member: **ACL** 2020, **AAAI** 2020,2019 , **EMNLP** 2019,2018 , **ACMMM** 2019, **NAACL** 2019, **COLING** 2018
- PC-Member (Workshop): **W-NUT, EMNLP** 2019
- Journal reviewer:
  Cognitive Computation,
  CIACSA, Computational Intelligence Magazine,
  Information Fusion,
  Transactions of Affective Computing
  Transactions on Audio, Speech and Language Processing,

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*

EXECUTIVE MEMBER *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