

3rd Year PhD Student, CMU LTI

RESEARCH AREAS

Natural Language Processing, Machine Learning

EDUCATION

Language Technologies Institute, CMU

PhD in Language Technologies; GPA: 4.03/4.33

o Advisor: Eduard Hovy, Zachary Lipton

• Key Courses: Grammars & Lexicons, Machine Translation, Language Grounding For Vision & Control, Neural Networks For NLP, Algorithms for NLP, Deep Reinforcement Learning, Structured Prediction for NLP

Indian Institute of Technology, Madras (IIT-M)

Chennai, India

B.Tech/M.Tech. in Computer Science and Engineering; CGPA: 9.27/10

Aug. 2011 - May. 2016

Pittsburgh, Pennsylvania

Sep. 2016 - Ongoing

- o Advisor: Balaraman Ravindran
- Key Electives: Machine Learning, NLP, Reinforcement Learning, Memory Based Reasoning, Searching & Indexing, Knowledge Representation, Distributed Algorithms, Ontologies, Graph Theory
- o Core Courses: Networks, Databases, Operating Systems, Automata Theory, Compilers, Algorithms
- o GRE: 337/340 (Quant: 170/170 Verbal: 167/170 Analytical Writing: 5.5/6)
- o TOEFL: 118/120 (Reading: 30/30 Writing: 30/30 Listening: 30/30 Speaking: 28/30)

PUBLICATIONS

- "Learning to Generate Move-by-Move Commentary for Chess Games" [PDF] [POSTER]

 Authors: Harsh Jhamtani*, Varun Gangal*, Eduard Hovy, Graham Neubig, Taylor Berg-Kirkpatrick

 Accepted for ACL 2018, Melbourne
- "Charmanteau: Character Embedding Models For Portmanteau Creation" [ARXIV][DEMO][CODE][DATA] Authors: Varun Gangal*, Harsh Jhamtani*, Graham Neubig, Eduard Hovy, Eric Nyberg Accepted for EMNLP 2017, Copenhagen
- "Detecting and Explaining Causes From Text For a Time Series Event" [ARXIV]

 Authors: Dongyeop Kang, Varun Gangal, Ang Lu, Zheng Chen, Eduard Hovy

 Accepted for EMNLP 2017, Copenhagen
- "Shakespearizing Modern Language Using Copy-Enriched Sequence-to-Sequence Models" [ARXIV][CODE] Authors: Harsh Jhamtani*, Varun Gangal*, Eduard Hovy, Eric Nyberg

 Accepted for EMNLP 2017 Workshop on Stylistic Variation, Copenhagen
- "HEMI: Hyperedge Majority Influence Maximization" [PDF]

 Authors: Varun Gangal, Balaraman Ravindran, Ramasuri Narayanam

 Accepted for The Second IJCAI Workshop on Social Influence Analysis (SocInf 2016), New York
- "Trust And Distrust Across Coalitions: Shapley Value Centrality Measures For Signed Networks" [PDF]
 Authors: Varun Gangal, Abhishek Narwekar, Balaraman Ravindran, Ramasuri Narayanam
 Accepted for AAAI Student Abstract 2016
- "Trust And Distrust Across Coalitions: Shapley Value Centrality Measures For Signed Networks" [PDF]

 Authors: Varun Gangal, Abhishek Narwekar, Balaraman Ravindran, Ramasuri Narayanam

 Accepted for NIPS 2015 Workshop on Networks In the Social And Information Sciences

REVIEWING EXPERIENCE

• ACL 2019, Generation Track & Machine Learning Track

Mentor: Prashant Rajoria

• Building Ad Customer Profile Using ML (CUPRUM)

Bing Ads Team, Microsoft India

May - July 2014

• Worked on building models of various aspects of Bing advertisters such as spamminess, malware and serveability using supervised machine learning methods, based on features from their ad pages.

Centrality and Influence in Unconventional Social Networks

IBM Research, India

Mentor : Ramasuri Narayanam

May - July 2015

• Worked on centrality measures for unconventional social networks such as signed networks, multiplex networks and hypergraphs

• Tongue Twister Generation

Snap Research, Venice, CA, USA

Mentor: William Brendel

May - August 2018

 \circ Worked on learning natural language models for generating tongue twisters - sentences which are semantically meaningful as well as phonetically unusual.

TEACHING EXPERIENCE

• Teaching Assistant - Neural Networks For NLP, Spring 2018

CMU

• Teaching Assistant - Grammars & Lexicons, Fall 2017

CMU

• Teaching Assistant - Machine Learning, Fall 2015

IIT Madras

• Teaching Assistant - Machine Learning MOOC, Spring 2016

NPTEL & IIT Madras

• Teaching Assistant - Reinforcement Learning, Spring 2016

IIT Madras

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, Matlab, C++, C
- Tools & Libraries: Dynet, PyTorch, NLTK, NetworkX, Python-igraph, Scikit-Learn, Django

CO CURRICULAR ACTIVITIES

- Reporting & Writing
 - Correspondent For T5E ¹, 2012-2013 & 2014-2015
 - Co-Author, Immerse² 2015 Authored an article on Evolutionary Game Theory. [ARTICLE]
- Social Initiatives
 - NSS ³ Project Representative, Wikipedia Translation to Marathi Part of a team of 3 representatives co-guiding a team of 10 volunteers for the translation of 60 educational Wikipedia articles on science, mathematics and history from English to Marathi, my native language.

¹IIT Madras news body

²IIT Madras research magazine

³ National Service Scheme, IIT Madras.