2nd year PhD Student, CMU LTI

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Pittsburgh, Pennsylvania

RESEARCH AREAS

Natural Language Processing, Social Network Analysis

EDUCATION

PhD: Language Technologies Institute, CMU

PhD in Language Technologies; **GPA**: 4.0 Sep. 2016 – Ongoing

o Advisor: Eduard Hovy

o Key Courses: Grammars & Lexicons, Machine Translation, Algorithms for NLP

• Bachelors+Masters: Indian Institute of Technology, Madras (IIT-M)

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

Aug. 2011 – May. 2016

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)

AWARDS & ACHIEVEMENTS

- IIT JEE, 2011: All India Rank of 623 from amongst $\cong 400000$ students
- NIPS 2015, Montreal: Funded through a Joint Science Project between IIT-M and IBM Research, India to attend the conference and present the NIPS Networks Workshop paper which I co-authored.

PUBLICATIONS

- "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: Varun Gangal, Harsh Jhamtani, 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

PROFESSIONAL EXPERIENCE

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

Mentor: Ramasuri Narayanam

IBM Research, India May – July 2015

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

TEACHING EXPERIENCE

• 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: 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-M research magazine

³ National Service Scheme, IIT Madras.