Samridhi Shree Choudhary

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Education

Carnegie Mellon University

MASTERS IN LANGUAGE TECHNOLOGIES

- Advisor: Carolyn Penstein Rosé
- CGPA: 3.84/4
- · Selected Coursework: Intro to Machine Learning, Algorithms for Natural Language Processing, Machine Translation, Computational Discourse Analysis, Deep Learning, Machine Learning for Large Datasets, Neural Nets for Natural Language Processing (ongoing), Computational Semantics (ongoing)

Vellore Institute of Technology

BACHELOR OF TECHNOLOGY

- Major: Computer Science and Engineering
- CGPA: 9.4/10

Research Experience _____

Language Technologies Institute (CMU)

RESEARCH ASSISTANT (ADVISOR: CAROLYN PENSTEIN ROSÉ)

- · Currently working on understanding the impact of coordination and developer conversation behaviors on project success in open-source communities on platforms like GitHub.
- Implemented and executed unsupervised Markov Models over project activity parameters to identify bursts in activity.
- Implemented and compared different segmentation models for time-series data to understand project activity bursts.
- Designed and implemented a novel way to quantify developer coordination in GitHub projects (work currently under review).

Alexa Prize Challenge 2017 (Team - CMUMagnus)

OFFICIAL MEMBER (ADVISOR: ALAN BLACK AND CAROLYN PENSTEIN ROSÉ)

· Designed and implemented retrieval-based models for opinion-mining and finite-state models for dialog strategies for a multiturn conversational agent.

Professional Experience

Microsoft

SOFTWARE ENGINEER (CLOUD DATA AND APPLICATION PROTECTION)

- · Worked on the design, implementation and testing of major replication features of standalone and clustered virtual machines for enterprise servers.
- Designed and implemented automated Functional and UI Component Test Library, used by entire team.
- Mentored interns and new-recruits for independently owned modules.

Microsoft

SOFTWARE ENGINEERING INTERN (WINDOWS SERVICEABILITY)

• Built an automated fuzzing system that was used to fuzz the DNS Cache Interfaces of Windows Server and Client OS.

Technical Skills

Programming Languages : C/C++ (Intermediate), Python (Intermediate), C# (Intermediate), Java (Beginner), Matlab/Octave (Beginner), R (Beginner) **Deep Learning Libraries** : PyTorch (Beginner), DyNet (Beginner) Database and Indexing Technologies : MongoDB (Intermediate), Lucene (Beginner)

Hyderabad, India

June 2012 - March 2016

Hyderabad, India

May 2011 - July 2011

SAMRIDHI S. CHOUDHARY · RÉSUMÉ

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Pittsburgh, USA

Vellore, India

May 2008 - June 2012

Pittsburgh, USA

August 2016 - August 2018

August 2016 - PRESENT

Pittsburgh, USA

November 2016 - August2017

Publications

Conference Paper : Samridhi Choudhary, Christopher Bogart, Aaksha Meghawat, Carolyn Rosè,	
James D. Herbsleb. Not Just Who But How: Reconsidering Coordination in Open-Source GitHub	Under Review
Projects. Under Review at the International Conference of Software Engineering, ICSE 2018	
Conference Paper : Shrimai Prabhumoye, Fadi Botros, Khyathi Chandu, Samridhi Choudhary,	
Esha Keni, Chaitanya Malaviya, Thomas Manzini, Rama Pasumarthi, Shivani Poddar, Abhilasha	To Appear in AWS
Ravichander, Zhou Yu, Alan Black. Building CMU Magnus from User Feedback. In Proceedings AWS	re:INVENT 2017
re:INVENT, 2017	
Workshop Paper : Samridhi Choudhary, Shrimai Prabhumoye, Evangelia Spiliopoulou,	
Christopher Bogart, Carolyn Rose, Alan Black. Linguistic Markers of Influence in Informal	Vancouver, Canada
Interactions. Second Workshop on NLP and Computational Social Science, ACL 2017	
Workshop Paper : Elizabeth K. Bowman, Matt Turek, Paul Tunison, Reid Porter, Steve Thomas,	
Vadas Gintautas, Peter Shargo, Jessica Lin, Qingzhe Li, Yifeng Gao, Xiaosheng Li, Ranjeev Mittu ,	
Carolyn Penstein Rosé , Keith Maki, Chris Bogart, Samridhi Shree Choudhary. Advanced text and	California, USA
video analytics for proactive decision making. SPIE Defense+ Security, International Society for	
Optics and Photonics, 2017	

Projects _____

Towards Interpretable Multi-Task Learning in Language

COURSE PROJECT INSTRUCTOR: RUSLAN SALAKHUTDINOV

- Implemented a two-level Bi-LSTM network jointly trained to predict the POS and NER tags for PennTreebank sentences.
- Implemented a novel gating technique in order to find the most important neurons for each task.
- · Performed experiments to interpret the properties of the task-important neurons and studied their interactions.

OpinionBot: An Intelligent Conversational Agent for Opinion Mining

Advisor: Alan Black and Alexander I. Rudnicky

- Scraped, cleaned and annotated the Washington Post Corpus with sentiment for opinion formulation.
- Implemented a retrieval model with *MMR Reranking* to fetch diverse opinions for a given query that were summarized into a coherent answer using *Extractive Summarization* with *TextRank*.
- Deployed the system as an Alexa Skill.

Understanding Structure in Open-Domain Dialog

Advisor: Graham Neubig and Alan Black

- Implemented a sequence-to-sequence model with attention to understand the inherent structure of dialog responses for the Ubuntu Dialog Corpus.
- Defined the structure of a response by converting the dialogs into templates using their parse trees annotations that were learned using the encoder-decoder model.

Linguistic Markers of Influence in Informal Interactions

Advisor: Carolyn Penstein Rosé and Alan Black

- Scraped and studied user posts from a social media platform to understand the effect of language on the influence of the post.
- Operationalized influence and annotated the posts accordingly, engineered indicative linguistic features for the content of the posts and ran regression models to study the improvement in classification of influential and non-influential posts.

Honors & Awards _____

2016-2018

• Graduate Research Fellowship - Covers tution, fees, conference travel and monthly stipend for the entire course duration.

2008-2012

- **Outgoing Awards and Gold Medal** Awarded the *University Gold Medal*, *Best Outgoing Student* and *Ishan Goel Endowment Award* for excellent performance in Computer Science for my undergraduate course.
- Annual University Scholarship Awarded university scholarship for securing Rank 1 in the Computer Science department each year through the 4-year course.

LTI, CMU

LTI, CMU

January 2017 - May 2017

August 2017 - December 2017

LTI, CMU

LTI. CMU

VIT. India

January 2017 - May 2017

January 2017 - May 2017

Carnegie Mellon University, USA