

PERSONAL DETAILS

E-Mail pgoel1@umd.edu

EDUCATION

Ph.D. Computer Science 2018 -

University of Maryland, College Park

Advisor: [Philip Resnik](#); Published Projects: [1], [4], [5]

Masters, Computer Science 2018 - 2020

University of Maryland, College Park

GPA: 4.0/4.0

B.Tech. Computer Science and Engineering (with Honors in AI) 2014 - 2018

Indian Institute of Technology (BHU) Varanasi, India

GPA: 9.34/10.0

Advisor: [Anil Kumar Singh](#); Published Projects: [6], [9], [10]

RESEARCH AND PROFESSIONAL EXPERIENCE

Summer Research Fellow: [National Institute of Science & Technology \(NIST\)](#) June-Sep 2022

Project: An Interactive Document Annotation Tool using Technical Language Processing for Measurement Science, working with the [NIST Community Resilience Program](#)

Supervisor: [Prof. Jordan Boyd-Graber](#) & [Dr. Juan Fung](#)

Visiting Research Scholar: [Lazer Lab, Northeastern University](#) June 2021 - June 2022

Project: Mainstream News Sharing in Online Misinformation Networks

Research Intern: [NLP Group, Microsoft Research, Redmond](#) June 2020 - August 2020

Project: Money Talks? The Connections between the Rhetoric on the Congressional Floor and Donations by Political Action Committees and Corporations

Supervisor: [Dr. Nebojsa Jojic](#)

Research Intern: [NLP Group, Microsoft Research, Redmond](#) June 2019 - August 2019

Project: Different Language Generation Mechanisms for Chatbots - What are the Differences?

Supervisor: [Dr. Nebojsa Jojic](#)

Research Intern: [Articulab, Carnegie Mellon University](#) May 2017 - July 2017

Project: Conversational Strategy Classification for a Virtual Assistant ([SARA](#))

and Detecting Indirectness in Conversation [5]

Supervisors: Prof. [Yoichi Matsuyama](#) and Prof. [Justine Cassell](#)

Research Intern: [CFILT Lab, Indian Institute of Technology Bombay](#) May 2016 - July 2016

Project: Sarcasm Target Identification [6]

Supervisors: Dr. [Aditya Joshi](#) and Prof. [Pushpak Bhattacharyya](#)

Software Engineering Intern: [Ephesoft, India](#) Dec 2016 - Jan 2017

Project: Comparing Content Analysis Approaches (with the Data Science team)

PEER-REVIEWED PUBLICATIONS

[1] Alexander Hoyle*, **Pranav Goel***, Denis Peskov*, Andrew Hian-Cheong*, Jordan Boyd-Graber, and Philip Resnik. “Is Automated Topic Model Evaluation Broken?: The Incoherence of Coherence.” Advances in Neural Information Processing Systems (2021). *Spotlight Presentation at NeurIPS 2021*

- [2] Nikolay Malkin, Sameera Lanka, **Pranav Goel**, and Nebojsa Jojic. “[Studying word order through iterative shuffling](#).” Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing (EMNLP). 2021.
- [3] Nikolay Malkin, Sameera Lanka, **Pranav Goel**, Sudha Rao, and Nebojsa Jojic. “[GPT Perdetry Test: Generating new meanings for new words](#)” In Proceedings of the 2021 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL). 2021.
- [4] **Pranav Goel***, Alexander Hoyle*, and Philip Resnik. “[Improving Neural Topic Models Using Knowledge Distillation](#).” Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP). 2020. [Presentation](#)
- [5] **Pranav Goel**, Shi Feng, and Jordan Boyd-Graber. “[How Pre-trained Word Representations Capture Commonsense Physical Comparisons](#)”. Proceedings of the 1st Workshop on Commonsense Inference in Natural Language Processing at EMNLP 2019. [Presentation](#)
- [6] **Pranav Goel***, Devang Kulshreshtha*, and Anil Kumar Singh. “[How emotional are you? Neural Architectures for Emotion Intensity Prediction in Microblogs](#)”. COLING 2018. [Presentation](#)
- [7] **Pranav Goel**, Yoichi Matsuyama, Michael Madaio, and Justine Cassell. “[I think it might help if we multiply, and not add](#)”: [Detecting Indirectness in Conversation](#). Proceedings of the International Workshop Series on Spoken Dialogue Systems Technology (IWSDS) 2018. [Presentation](#) (Also published as a [Chapter](#) in the Book: 9th International Workshop on Spoken Dialogue System Technology pp 27-40, Lecture Notes in Electrical Engineering, vol 579. Springer, Singapore.)
- [8] Aditya Joshi, **Pranav Goel**, Pushpak Bhattacharyya, and Mark J. Carman. “[Sarcasm Target Identification: Dataset and An Introductory Approach](#).” LREC 2018-11th edition of the Language Resources and Evaluation Conference 2018. [Poster](#)
- [9] **Pranav Goel***, Devang Kulshreshtha*, Prayas Jain and K.K. Shukla. “[Prayas at emoint 2017: An ensemble of deep neural architectures for emotion intensity prediction in tweets](#).” Proceedings of the 8th Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis at EMNLP 2017. (Shared Task Winner!) [Presentation](#)
- [10] **Pranav Goel** and Anil Kumar Singh. “[IIT \(BHU\): System Description for LSDSem’17 Shared Task](#).” Proceedings of the 2nd Workshop on Linking Models of Lexical, Sentential and Discourse-level Semantics at EACL 2017. [Poster](#)

* joint first author

TECHNICAL SKILLS

- Languages: Python, C, C++, R
- Technologies: PyTorch, Keras, Scikit-learn, AllenNLP, NLTK, Git, BASH, L^AT_EX, Flask

SERVICE TO PROFESSION

- Reviewer Committee for the Computational Social Science and Cultural Analytics track at EMNLP 2022.
- Reviewer for the ACL Rolling Review (ARR).
- Reviewer for EMNLP 2021, Computational Social Science and Cultural Analytics track; Information Retrieval and Text Mining track.
- Reviewer for CLPsych 2021 workshop at NAACL 2021.
- Reviewer for ACL 2021, Computational Social Science and Cultural Analytics track.

TEACHING

Teaching Assistant

Discrete Mathematics at Dept of Computer Science, University of Maryland

Spring 2020

Teaching Assistant	Fall 2019
<i>Discrete Mathematics at Dept of Computer Science, University of Maryland</i>	
Teaching Assistant	Spring 2019
<i>Introduction to Natural Language Processing at Dept of Computer Science, University of Maryland</i>	
Teaching Assistant	Fall 2018
<i>Discrete Mathematics at Dept of Computer Science, University of Maryland</i>	
Teaching Assistant	Spring 2018
<i>Introduction to Artificial Intelligence at Dept of Computer Science & Engineering, Indian Institute of Technology (BHU) Varanasi</i>	
Teaching Assistant	Fall 2016
<i>Introduction to Programming in C at Dept of Computer Science & Engineering, Indian Institute of Technology (BHU) Varanasi</i>	

AWARDS AND SCHOLARSHIPS

- Dean's Fellowship, University of Maryland, 2019-2020.
- Dean's Fellowship, University of Maryland, 2018-2019.
- Received about USD 700 from IIT (BHU) Varanasi as Travel Grant to attend EACL 2017.
- Selected for the DAAD-WISE scholarship/internship program for 2017.