

Nikhil Mehta

mehta52@purdue.edu ❖ (408) 712-1003 ❖ Milpitas, CA ❖ GitHub ❖ Google Scholar ❖ hockeybro12.github.io

EDUCATION

Purdue University

Ph.D. Computer Science (Advisor: Dan Goldwasser, Focus: Natural Language Processing)

M.S. Computer Science, B.S. Computer Science

West Lafayette, IN

May 2024

December 2020, May 2018

SELECTED WORK EXPERIENCE

Purdue NLP Lab

NLP/AI Student Researcher

August 2017 - Present

West Lafayette, IN

- Working in Interactive Learning, Large Language Models, and Computational Social Science: 5 Total Papers
 - Developed methods for humans to interact with AI agents, that the agents can learn from. My approach improves the performance of LLMs (RLHF), Graph Neural Networks (GNNs), and other ML models.

Microsoft Research (MSR)

Research Intern

May – August 2022

Redmond, WA

- Built an interactive learning solution for a multi-modal task. It enables a LLM-based AI agent to incorporate feedback from humans and ask clarifying questions, making the agent end-to-end interactive. Pre-print available.

Amazon Science

Applied Scientist Intern

May – August 2021

Boston, MA

- Built a novel model to predict product images given user queries, published at NeurIPS InterNLP workshop.

Amazon Science

Applied Scientist Intern

May – August 2020

Boston, MA

- Improved Named Entity Recognition on Alexa utterances by over 10%, paper published at Amazon conference

Fujitsu Laboratories of America

Machine Learning Research Intern

May – August 2019

Sunnyvale, CA

- Created a patented approach to predict a relevant joke for a chat-bot to reply with, given a conversation history.

SKILLS + REVIEWING

ML/AI, NLP, Reinforcement Learning, CV, Python, C, Large Scale AI Systems, Big Data, Cloud, PyTorch, Foundation Models

Conference Reviewing: ACL ARR, ACL, AACL, AAAI, NAACL, EMNLP, COLING, EACL

SELECTED PUBLICATIONS

Interactively Learning Social Media Representations Improves News Source Factuality Detection

Findings of AACL 2023: Nikhil Mehta and Dan Goldwasser

Tackling Fake News Detection by Continually Improving Social Context Representations

ACL 2022: Nikhil Mehta, Maria Pacheco, and Dan Goldwasser

Improving Natural Language Interaction with Robots Using Advice

NAACL 2019: Nikhil Mehta and Dan Goldwasser

An Interactive Framework for Profiling News Media Sources

arXiv 2023 Nikhil Mehta and Dan Goldwasser

Improving Grounded Language Understanding by Interacting with Agents Through Help Feedback

arXiv 2023: Nikhil Mehta, Milagro Teruel, Patricio Sanz, Xin Deng, Ahmed Awadallah, Julia Kiseleva

Workshops: InterNLP at NeurIPS 2022, InterNLP at ACL 2021, Amazon ML Conference 2020, ICML 2017