

Nikhil Mehta

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EDUCATION

Purdue University

Ph.D. in Natural Language Processing, Department of Computer Science (Advisor: Dan Goldwasser)
M.S. Computer Science, B.S. Computer Science

West Lafayette, IN

April 2024
December 2020, May 2018

SELECTED WORK EXPERIENCE

Purdue NLP Lab

NLP/AI Ph.D. Student Researcher

August 2017 - Present

West Lafayette, IN

- Areas: Large Language Models, Generative AI, Interactive Learning, and Social Science: Six 1st Author Papers
 - Trained and improved performance of LLMs (RLHF), Graph Neural Networks, and other ML models.
 - Developed methods for humans to interact with AI agents, that the agents can learn from.

Microsoft Research (MSR)

Research Intern

May – August 2022

Redmond, WA

- Multimodal AI: Built an interactive learning solution for IGLU. It enables a LLM-based 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

- Multimodal AI: Built a model to predict product images given user queries, published at NeurIPS workshop.

Amazon Science

Applied Scientist Intern

May – August 2020

Boston, MA

- Conversational AI: Improved Entity Recognition on Alexa utterances by over 10%, published at Amazon Conf.

Fujitsu Laboratories of America

Machine Learning Research Intern

May – August 2019

Sunnyvale, CA

- Dialogue/Chatbot: Created a patented approach to predict a relevant joke for a chat-bot to reply with.

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

An Interactive Framework for Profiling News Media Sources

NAACL 2024: Nikhil Mehta and Dan Goldwasser

Improving Grounded Language Understanding by Interacting with Agents Through Help Feedback

Findings of EACL 2024: Nikhil Mehta, Milagro Teruel, Patricio Sanz, Xin Deng, Ahmed Awadallah, Julia Kiseleva

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

Using Reinforcement Learning to Identify Divisive Perspectives Improves LLMs Social Reasoning Abilities

In submission 2024: Nikhil Mehta and Dan Goldwasser

Interactively Learning Social Media Representations Improves News Source Factuality Detection

Findings of AACL 2023: Nikhil Mehta and Dan Goldwasser

Workshops: InterNLP at NeurIPS 2022, InterNLP at ACL 2021, Amazon ML Conference 2020, ICML 2017. U.S. Patent