

# Nikhil Prakash

Khoury College of Computer Sciences  
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🌐 [nix07.github.io](https://github.com/nix07)

## Research Interests

I'm interested in the interpretability of large language models for AI alignment and development of Human-AI collaboration techniques.

## Education

- Sept 2022–Present **Ph.D.**, *Northeastern University*, Boston, Massachusetts.  
Computer Science, Bau Lab (advisor: Prof. David Bau [🔗](#))  
GPA: 4/4  
Relevant Coursework: Theory and Methods in HCI, Empirical Research Methods for HCI, Machine Learning
- Aug 2016– Aug 2020 **Bachelor of Eng.**, *RV College of Eng.*, Bangalore, India  
Department of Telecommunication  
Cumulative GPA: 8.31/10 (First Class with Distinction)

## Peer-Reviewed Publications

- IUI 2023 **Supporting Requesters in Writing Clear Crowdsourcing Task Descriptions Through Computational Flaw Assessment**  
Zahra Nouri, [Nikhil Prakash](#), Ujwal Gadiraju, Henning Wachsmuth  
Intelligent User Interfaces 2023.
- HCOMP 2021 **iClarify – A Tool to Help Requesters Iteratively Improve Task Descriptions in Crowdsourcing** [🔗](#)  
Zahra Nouri, [Nikhil Prakash](#), Ujwal Gadiraju, Henning Wachsmuth  
Work-in-Progress & Demonstration, Human Computation and Crowdsourcing 2021.
- NeurIPS 2020 **Conceptualization and Framework of Hybrid Intelligence Systems** [🔗](#)  
[Nikhil Prakash](#) and Kory W. Mathewson  
Human And Machine in-the-Loop Evaluation and Learning Strategies Workshop, Neural Information Processing Systems 2020.
- COMSNETS 2019 **A Grid-based Model for Generating Scale-Free Networks** [🔗](#)  
Amit Kumar Verma and [Nikhil Prakash](#)  
Social Networking Workshop, Conference on Communication Systems & Networks 2019.

## Work Experience

- Sept 2022–Present **Northeastern University, Research Assistant**  
Working under the supervision of Prof. David Bau [🔗](#) to make large language models self-aware of their internal mechanism through in-context learning.
- Jan–Aug 2022 **Max Planck Institute for Security and Privacy (MPI-SP), Visiting Scholar**  
Worked under the supervision of Prof. Asia J. Biega [🔗](#) to conduct exploratory user studies for investigating well-being of microtask crowdworkers.  
[In preparation for submission](#)
- May 2021–Sept 2022 **Delft University of Technology (TU Delft), Research Assistance (Voluntary)**  
Worked under the supervision of Prof. Ujwal Gadiraju [🔗](#) and Prof. Henning Wachsmuth [🔗](#), to develop an assistive tool that would help crowdsourcing requesters in creating clear task descriptions quickly.
- Sept 2020–Jan 2022 **Accolite Software India, Senior Software Engineer**  
Worked as full-stack engineer to design, develop, and maintain complex production-ready web applications. Primary technology stack was Angular, Java, and IBM DB2.
- Jan–May 2020 & June–Aug 2019 **Korea Advanced Institute of Science and Technology (KAIST), Visiting Student Researcher**  
Worked under the supervision of Prof. Juho Kim [🔗](#) to develop an intelligent interactive system for personalizing food recipes based on users' preferences and dietary constraints.
- May–June 2019 **Samsung R&D Institute India - Bangalore, Student Trainee**  
Worked as a student trainee at Samsung Research, Bangalore (SRIB) in the Service PF team to design and develop the offline newsfeed functionality in the Samsung Internet.
- June–July 2018 **Indian Institute of Technology, Ropar (IIT Ropar), Research Intern**  
Worked under the supervision of Prof. Sudarshan Iyengar [🔗](#) to investigate the dynamics of collaboration process on English Wikipedia.

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## Fellowships and Awards

- 2022 Khoury College of Computer Sciences start-up fund worth \$5k.
- 2022 Northeastern Graduate Fellowship worth \$83k (per year).
- 2020 NeurIPS complimentary registration (Travel Award) worth \$100.
- 2020 ACM CoDS-COMAD Student Travel Grant worth \$80.

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## Engineering Skills

- Languages Python, C++, Java, JavaScript, HTML, CSS, SQL
- Technologies & Frameworks PyTorch, Transformers, Scikit-learn, NLTK, Pandas, Numpy, Matplotlib, Angular, Bootstrap, jQuery, D3, Jasmine, Docker, Linux

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## Voluntary Services

- 2022 Student volunteer at Ph.D. Admissions Committee to review prospective Ph.D. student applications.
- 2022 Ph.D. student volunteer at the Idealist Grad School Fair, Boston for assisting prospective students to Khoury College of Computer Sciences.
- 2019 Student volunteer at India HCI.