

# Abhishek Sharma

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EDUCATION	<p><b>Purdue University</b>, West Lafayette, Indiana Ph.D., Department of Computer Science Area: Natural Language Processing (NLP) Advisor: Prof. Dan Goldwasser</p> <p><b>Purdue University</b>, West Lafayette, Indiana B.S., Department of Computer Science</p>	<p>Jun 2020–May 2026 (expected)</p> <p>Aug 2016–Dec 2019</p>
INTERNSHIPS	<p><b>Student Researcher, Google Brain, Google, Mountain View, CA</b> <i>Playbook for prototyping ML4Code tasks</i> Designed a playbook and infrastructure for prototyping ML4Code tasks: task formulation, data generation, training, and evaluation. Used internally as one-stop project documentation for non-ML-experts, and to accelerate research.</p> <p><b>Applied Scientist Intern, AWS Comprehend, Amazon.com, Santa Clara, CA</b> <i>Multi Teacher Knowledge Distillation for sequence tagging</i> Designed a framework for <i>Knowledge Distillation</i> through <i>multiple teachers</i> for <i>sequence tagging</i> tasks. Demonstrated <i>significant</i> performance improvement against single teacher Knowledge Distillation model and competitive performance against teacher models.</p>	<p>May 2022–Aug 2022 Dan Zheng</p> <p>May 2021–Aug 2021 Kalpit Dixit, Kashif Shah</p>
PAPERS	<p><b>CoLa - Learning to Interactively Collaborate with Large LMs</b> Abhishek Sharma, Dan Goldwasser arXiv preprint arXiv:2504.02965</p>	
RESEARCH EXPERIENCE	<p><b>Ph.D. Student, Purdue University</b> <i>Human Interaction to Guide LLM</i> Developing novel supervision algorithms to simulate human interactions to guide LLMs.</p> <p><b>Research Assistant, Purdue University</b> <i>Neural Semantic Parsing</i> Designed a novel <i>neural encoder decoder</i> architecture for <i>semantic parsing</i>. Demonstrated performance improvement against standard <i>neural translation models</i> on <i>Lambda Calculus</i> datasets.</p> <p><b>Research Assistant, Purdue University</b> <i>Fairness Issues in Machine Learning Models</i> Demonstrated <i>bias induced</i> as well as potential <i>mitigation</i> by <i>Decision Tree &amp; Logistic Regression</i> models on a credit dataset, both empirically and mathematically.</p>	<p>Jun 2020–Present Prof. Dan Goldwasser</p> <p>Aug 2019–May 2020 Prof. Tiark Rompf</p> <p>Aug 2018–May 2019 Prof. Chris Clifton</p>
ACADEMIC AND INSTITUTIONAL SERVICE	<p><b>Reviewer</b> ARR, ACL, EMNLP, NAACL</p> <p><b>Teaching Assistant</b> Reasoning With LLM (CS 592-LLM), Natural Language Processing (CS 577), Introduction to Algorithms (CS 381), Data Mining and Machine Learning (CS 373), Systems Programming (CS 252)</p> <p><b>Panel Host Purdue CS Graduate Symposium 2025</b> Topic - Transformative AI: LLMs, Robotics, and Scientific Innovation</p>	
AWARDS AND SCHOLARSHIPS	<p>Purdue Computer Science Graduate Teaching Award</p> <p>Purdue Summer Undergraduate Research Fellowship</p>	<p>2022</p> <p>2018</p>
REFERENCES	<p>Prof. Dan Goldwasser, Purdue University</p> <p>Prof. Chris Clifton, Purdue University</p>	<p>email: <a href="mailto:dgoldwas@purdue.edu">dgoldwas@purdue.edu</a></p> <p>email: <a href="mailto:clifton@cs.purdue.edu">clifton@cs.purdue.edu</a></p>