

# Abhishek Sharma

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EDUCATION	<b>Purdue University</b> , West Lafayette, Indiana Ph.D., Department of Computer Science Area: Natural Language Processing (NLP) Advisor: Prof. Dan Goldwasser <b>Purdue University</b> , West Lafayette, Indiana B.S., Department of Computer Science	Jun 2020–May 2025 (expected)  Aug 2016–Dec 2019
INTERNSHIPS	<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. <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.	May 2022–Aug 2022 Dan Zheng  May 2021–Aug 2021 Kalpit Dixit, Kashif Shah
RESEARCH EXPERIENCE	<b>Ph.D. Student, Purdue University</b> <i>Prompt Generation</i> Working on framework for learning to reason with <i>Large Language Models</i> through conversation. Previously worked on <i>co-reference</i> resolution task using <i>neural graph architecture</i> for better discourse representation. <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. <b>Research Assistant, Purdue University</b> <i>Fairness Issues in Machine Learning Models</i> Demonstrated <i>bias induced</i> as well as <i>mitigated</i> by <i>Decision Tree &amp; Logistic Regression</i> models on a credit dataset, both empirically and mathematically.	Jun 2020–Present Prof. Dan Goldwasser  Aug 2019–May 2020 Prof. Tiark Rompf  Aug 2018–May 2019 Prof. Chris Clifton
ACADEMIC AND INSTITUTIONAL SERVICE	<b>Reviewer</b> ACL, EMNLP, NAACL, ARR  <b>Teaching Assistant</b> Natural Language Processing (CS 577) Data Mining and Machine Learning (CS 373) Systems Programming (CS 252) Introduction to Algorithms (CS 381)	
AWARDS AND SCHOLARSHIPS	Purdue Computer Science Graduate Teaching Award Purdue Summer Undergraduate Research Fellowship	2022 2018
REFERENCES	Prof. Dan Goldwasser, Purdue University Prof. Chris Clifton, Purdue University	email: <a href="mailto:dgoldwas@purdue.edu">dgoldwas@purdue.edu</a> email: <a href="mailto:clifton@cs.purdue.edu">clifton@cs.purdue.edu</a>