Tai D. Nguyen

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Education	University of PennsylvaniaPhiladelphia, PAMaster of Science in Engineering, Computer and Information Science2021-2024Thesis: Attribute in-context learning examples with influences2021-2024Coursework: Machine Reasoning, Theory of Computation, NLP Efficiency, NLP &Programming Languages, Software Systems, Operating Systems, Algorithms		
	 Haverford College Bachelor of Arts, Economics & Statistics Thesis: Quantifying the impact of home sharing on rental, hotel, York City 	Haverford, PA 2015-2019	
Publications	In-context example selection with influences [1] N. Tai , E. Wong On Arxiv; In submission		
	Explanation-based finetuning makes models more robust to spurious cues [2] J. Ludan, Y. Meng [*] , T. Nguyen [*] , S. Shah [*] , Q. Lyu, M. Apidianaki, C. Callison Burch Association for Computational Linguistics (ACL 2023)		
	Software entity recognition with noise-robust learning [3] T. Nguyen , Y. Di, J. Lee, M. Chen, T. Zhang IEEE/ACM International Conference on Automated Software Engi	ineering (ASE 2023	
Research Experience	 H2Lab @ University of Washington Research assistant Advisor: Ben Bogin Building a data attribution benchmark for tracing LLM capabilit 	Remote March 2024 - now ies from pretraining	
	 Chris Callison-Burch Lab Student lead Advisors: Marianna Apidianaki, Chris Callison-Burch (UPenn) Lead UPenn team of 3 students on IARPA HIATUS project, bui for interpretable authorship attribution. Proposed an interpretable system that outperforms neural er domain evaluation. 		
	 IBM Data scientist Built analysis tools to support the development of IBM System engineer users, including algorithms and interactive visualization t cover and confirm 100+ erroneous machine parts. Mentored 3 interns and peers in obtaining the IBM Data Scientific terms and peers in obtaining the IBM Data Scientific terms and peers in obtaining the IBM Data Scientific terms and peers in obtaining the IBM Data Scientific terms and peers in obtaining the IBM Data Scientific terms and peers in obtaining the IBM Data Scientific terms and peers in obtaining the IBM Data Scientific terms and peers in obtaining the IBM Data Scientific terms and peers in obtaining the IBM Data Scientific terms and peers in obtaining the IBM Data Scientific terms and peers in obtaining the IBM Data Scientific terms and peers in obtaining the IBM Data Scientific terms and peers in obtaining the IBM Data Scientific terms and peers in obtaining the IBM Data Scientific terms and peers in obtaining the IBM Data Scientific terms and peers in obtaining the IBM Data Scientific terms and peers in obtaining the IBM Data Scientific terms and peers in obtaining terms and peers in obtaining terms and peers in obtaining terms and peers and p	ools that helped dis	

- Mentored 3 interns and peers in obtaining the IBM Data Science Professional Certificate.

		Remote Summer 2022	
	 Advisors: Muhao Chen (USC), Tianyi Zhang (Purdue) Led project on building a massive corpus and an efficient noise-robust m named entity recognition (NER) in the software domain. First-authored publication accepted to ASE 2023. 	odel for doing	
Teaching & Service	NeurIPS 2023 Workshop: ATTRIB Program committee member - Reviewed and recommended papers for acceptance.	2023	
	STEAM for Vietnam	2021	
	 Data science lead Co-taught workshop for Vietnamese teachers to build TJBot, a Raspberry Pi project powered by IBM Watson. Made recommendations to improve student's graduation rate by 20%. 		
	- Developed data pipeline and dashboards to support internal teams.		
	Haverford College Admissions Senior interviewer	2018-2020	
	- Conducted 200+ interviews with prospective students to help recommend them for admissions to Haverford.		
Projects	NFL Big Data Bowl Finalist	2022	
 Awarded \$15,000 as one of 5 finalists among 200+ submissions by the National Football League (NFL). Designed regression model simulating a kick returner's morproposed new metrics to evaluate returner's decision making. Presentation / submission 			
	Underthesea NLP	2021 - 2022	
	 Open-source contributor Trained models on aspect-based sentiment classification and NER for improving 15% F1 from existing models. Repository 	: Vietnamese,	
Talks	UPenn ML & Formal Methods Seminar Influence-guided example selection for in-context learning	Feb. 2023	
Honors	Vietnam Education Foundation (VEF) Fellow IBM Volunteer Excellence Award IBM New Developer Jumpstart Winner	2021 2021 2020	
Skills	Programming : Python, C++, C, Java, Bash, git, RunAI/slurm Framework : PyTorch, Docker, Google Cloud, AWS, plotly, d3.js Languages : Vietnamese (native), English (native), Mandarin (intermed	liate)	

Last updated April 9, 2024.