Aman Priyanshu

Privacy-Preserving Machine Learning Expert | AI Security

Education

	Carnegie Mellon University MSIT — Privacy Engineering	Pittsburgh, PA, USA
-	Manipal Institute Of Technology, MAHE B.Tech Information Technology with Minors in Big Data Analytics	Karnataka, India

Professional Experience

Present	Anthropic Model Safety Bug Bounty Program, Independent Contractor		
Oct 2024	Participated in Anthropic's AI Safety Bug Bounty, focusing on CBRN and cybersecurity vulnerabilities. (NDA)		
Aug 2024 Jun 2024	$\begin{tabular}{ll} \textbf{Robust Intelligence AI Security Research Intern} & \textbf{In-Person / San Francisco, CA, USA} \\ \textbf{Jailbroke LLaMA-3.1} (499\times) \& OpenAI (4.25\times Attack Success Rate) in 24h [received media coverage]; Developed automated prompt-injections; Created million-scale harmful intent dataset for AI Safety. \\ \end{tabular}$		
Mar 2024 Jan 2024	OpenAI Red Teaming Network, Independent Contractor Remote / San Francisco, CA, USA Participated in OpenAI led red teaming efforts to assess the risks and safety profile of OpenAI models. (NDA)		
Aug 2023 Aug 2022	Eder Labs R&D Private Limited Privacy Engineer Intern Hybrid / Delaware, USA Privacy-preserving ad recommendations (12x speedup); DP synthetic data generation for relational tables.		

Research Experience

May 2024 Aug 2023	Privacy Engineering Research [❖] Independent Study Advisor: Professor Norman Sadeh Project: For prompt-engineering geared towards usable privacy & secur	Carnegie Mellon University, USA rity.
Present Aug 2023	OpenMined Research Team [] Project Lead and Collaborator Collaborators: Dr. Niloofar Mireshghallah Project: The impact of epsilon differential privacy on LLM hallucination	Remote / United Kingdom
Aug 2022 Jun 2022	Concordia University [�] MITACS Globalink Research Intern Advisors: Professor Wahab Hamou-Lhadj Project: Exploring machine learning for anomaly detection toolkit.	Montreal, Canada

Honours and Awards

- > Spark Grant Winner, NOVA Hackathon, Mar 2023
- > Theme Category Winner, HackCMU, Sept 2023
- > Second Runners-Up ShowYourSkill (Coursera), Jun 2022
- > AAAI Undergraduate Consortium Scholar, Feb 2023
- > First Prize HackRx by Bajaj Finserv, July 2021
- > First Prize ACM UCM Datathon, UC Merced, May 2021

Publications

S=In Submission, J=Journal, C=Conference, (* = Equal Contribution)

- [S.1] Are Chatbots Ready for Privacy-Sensitive Applications? An Investigation into Input Regurgitation and Prompt-Induced Sanitization [Preprint]

 [In Submission]
- [C.1] Through the Lens of LLMs: Unveiling Differential Privacy Challenges [Presentation]
 2024 USENIX Conference on Privacy Engineering Practice and Respect [PEPR@USENIX'24]
- [J.1] Finding an elite feature for (D)DoS fast detection-Mixed methods research [PDF]

 Journal: Computers & Electrical Engineering, Volume: 98, Pages: 107705, 2021 [Computers & Electrical Engineering'21]

Other venues of acceptances: AI4SG@AAAI'23, UpML@ICML'22, IEEE S&P'21, RCV@CVPR'21, and W-NUT@EMNLP'21.

Skills

Programming Languages
Frameworks & Libraries
Relevant Coursework
Prompt Engineering (17730), AI Governance (17716), Deep Learning (17631), Usability (17734),
Data Structures & Algorithms, OOPs, and Database Management.