

AMAN PRIYANSHU

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EDUCATION

MSIT - Privacy Engineering, Carnegie Mellon University
School of Computer Science

Aug 2023 - Expected Dec 2024

BTech in Information Technology, Manipal Institute of Technology
Dept. of Information & Communication Technology

Jun 2019 - Jul 2023
Cum. GPA: 8.43/10

EXPERIENCE

Privacy Engineer [Eder Labs R&D Private Limited](#)

Aug 2022 — Jul 2023

- Working on private synthetic data generation for RDBMS & semi-supervised domain adaptation for KeyBERT.
- Created two public python libraries, [DPSDV](#) & [AdaptKeyBERT](#), for the same.
- Working on prompts for creating a personalized conversational LLM with privacy awareness.

MITACS Research Intern [Concordia University](#)

May 2022 — Aug 2022

- Worked on reinforcing anomaly detection model for online, adaptable deployment with marginal false alarms.

Federated Learning Intern [DynamoFL](#)

March 2022 — May 2022

- Worked on multimodal federated recommendation systems for privately secure federated aggregation.

PUBLICATIONS

- Priyanshu, A.**, Vijay, S., Kumar, A., Naidu, R. & Mireshghallah, F. Are Chatbots Ready for Privacy-Sensitive Applications? An Investigation into Input Regurgitation and Prompt-Induced Sanitization (2023).
- Varghese, J. E., Muniyal, B. & **Priyanshu, A.** Finding an elite feature for (D)DoS fast detection—Mixed methods research. Journal: Computers & Electrical Engineering, Elsevier, Volume: 98, Pages: 107705. <https://doi.org/10.1016/j.compeleceng.2022.107705> (2022).
- Priyanshu, A.**, Naidu, R., Mireshghallah, F. & Malekzadeh, M. Efficient Hyperparameter Optimization for Differentially Private Deep Learning. *Accepted at the Privacy Preserving Machine Learning Workshop, ACM CCS 2021.* <https://arxiv.org/abs/2108.03888> (2021).
- Naidu, R., **Priyanshu, A.**, Kumar, A., Kotti, S., Wang, H. & Mireshghallah, F. When Differential Privacy Meets Interpretability: A Case Study. *Accepted at the Responsible Computer Vision Workshop, CVPR 2021 and Privacy Preserving Machine Learning Workshop, ACM CCS 2021.* <https://arxiv.org/abs/2106.13203> (2021).
- Priyanshu, A.** & Naidu, R. FedPandemic: A Cross-Device Federated Learning Approach Towards Elementary Prognosis of Diseases During a Pandemic. *Accepted at the Machine Learning for Preventing and Combating Pandemics and the Distributed and Private Machine Learning Workshops, ICLR 2021* (2021).

PROJECTS

DeCrise

[Link](#)

- DeCrise, a public support platform employing continual-federated-learning for IR during natural disasters. Won 1st place in *The ACM UCM Datathon* (Technology: Privacy Engineering).

Voix

[Link](#)

- An anonymizing civic engagement platform that won under the *Community & Civic Engagement for UC Berkeley's CalHacks Hackathon* (Technology: Privacy Engineering).

SKILLS

Languages & Frameworks Python, Julia, Java, C++, PyTorch, TensorFlow, HuggingFace, FastAPI

EXTRA-CURRICULAR ACTIVITIES

AAAI Undergraduate Consortium Scholar [\[Link\]](#)

Feb 2023

Expertise Sub-Head, Artificial Intelligence, [Research Society Manipal](#)

Feb 2021 — Sep 2022

Technical Head, [Cryptonite Student Project](#)

Jun 2021 — Sep 2022

Second Runner's Up, [#ShowYourSkill](#) (Coursera)

June 2022

Awarded a research seed grant for UG & PG Students

Feb 2022

First Prize, [Code Innovation Series - associated with GitHub](#)

Aug 2021