AMAN PRIYANSHU

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EDUCATION

BTech in Information Technology, Manipal Institute of Technology — Expected 2023
Dept. of Information & Communication Technology — **Cum. GPA: 8.43/10**

Relevant Coursework:

- OOPs, Computer Networks, OS, Database Management, Parallel Computing, Embedded Systems
- Natural Computing, Data Warehousing & Mining, Big Data, Graph Analytics, Machine Learning.
- Health Economics, Creative Writing, Matlab

EXPERIENCE

Privacy Engineer Intern Eder Labs R&D Private Limited — Aug 2022 — Present

- Working on differentially private synthetic data generation for tabular and relation database systems.
- Created a public python library, DPSDV, for the same.

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.

Undergraduate Research Assistant Manipal Institute of Technology — May 2021 — Present

- Working on machine learning approaches to solve problems in the field of selective encryption and PPML.

PUBLICATIONS

1. Vijay, S. & **Priyanshu, A.** NERDA-Con: Extending NER models for Continual Learning — Integrating Distinct Tasks and Updating Distribution Shifts. *Accepted at the Updatable Machine Learning Workshop, ICML 2022* (2022).
2. Varghese, J. E., Muniyal, B. & **Priyanshu, A.** Finding an elite feature for (D)DoS fast detection—Mixed methods research. Journal: Computers & Electrical Engineering, Volume: 98, Pages: 107705. https://doi.org/10.1016/j.compeleceng.2022.107705 (2022).
3. **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).
4. 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).

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*.

Voix — Link

- A privacy-preserving civic engagement platform that won under the *Community & Civic Engagement for UC Berkeley's CalHacks Hackathon*.

SKILLS

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

EXTRA-CURRICULAR ACTIVITIES

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