CURRICULUM VITAE

Bargav Jayaraman

PhD Student in Computer Science University of Virginia 330 Rice Hall, Charlottesville VA 22903

(a) Education & Training

2016 - 2022	Computer Science, PhD	University of Virginia	Virginia, USA
2012 - 2015	Computer Science, MS	IIIT Hyderabad	Telangana, India
2008 - 2012	Computer Science, B. Tech	SASTRA University	Tamil Nadu, India

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(b) Research & Professional Experience

Research Intern, Microsoft Redmond Lab	
Graduate Research Assistant, University of Virginia	
R & D Senior Analyst, Accenture Technology Labs Bangalore	
Teaching Assistant (Data Warehousing and Data Mining), IIIT Hyderabad	
Teaching Assistant (Principles of Information Security), IIIT Hyderabad	

(c) Skill Set

Programming	Python, C, C++, Java
Frameworks	Scikit-Learn, PyTorch, Tensorflow, Obliv-C, AWS, Azure, Git
Web	HTML, CSS, Markdown

(d) Publications

Attacks On Machine Learning

- 1. Bargav Jayaraman and David Evans. Are attribute inference attacks just imputation? *arXiv*:2209.01292, 2022.
- 2. Bargav Jayaraman, Esha Ghosh, Melissa Chase, Sambuddha Roy, Huseyin Inan, Wei Dai, and David Evans. Combing for credentials: Active pattern extraction from smart reply. *arXiv:2207.10802*, 2022.
- 3. Bargav Jayaraman, Lingxiao Wang, Katherine Knipmeyer, Quanquan Gu, and David Evans. Revisiting membership inference under realistic assumptions. In *Proceedings on Privacy Enhancing Technologies*, 2021.
- 4. Bargav Jayaraman and David Evans. Evaluating differentially private machine learning in practice. In *USENIX Security Symposium*, 2019.

Privacy-Preserving Machine Learning

- 4. Lingxiao Wang, Bargav Jayaraman, David Evans, and Quanquan Gu. Efficient privacy-preserving stochastic nonconvex optimization. *arXiv:1910.13659*, 2020.
- 5. Bargav Jayaraman, Lingxiao Wang, David Evans, and Quanquan Gu. Distributed learning without distress: Privacy-preserving empirical risk minimization. In *Advances in Neural Information Processing Systems*, 2018.
- 6. Lu Tian, Bargav Jayaraman, Quanquan Gu, and David Evans. Aggregating private sparse learning models using multi-party computation. In *NeurIPS Workshop on Private Multi-Party Machine Learning*, 2016.

Other Publications

- 7. Bargav Jayaraman, Hannah Li, and David Evans. Decentralized certificate authorities. *arXiv:1706.03370*, 2017.
- 8. Breno D. Cruz, Bargav Jayaraman, Anurag Dwarakanath, and Collin McMillan. Detecting vague words and phrases in requirements documents in a multilingual environment. In *IEEE International Requirements Engineering Conference (RE)*, 2017.
- 9. Bruhadeshwar Bezawada, Alex X. Liu, Bargav Jayaraman, Ann L. Wang, and R. Li. Privacy preserving string matching for cloud computing. In *IEEE International Conference on Distributed Computing Systems*, 2015.

(e) Invited Talks and Presentations

- 1. Presented my published work on "Revisiting Membership Inference Under Realistic Assumptions" at *PETS Symposium*, 2021.
- 2. Presented a poster on "Revisiting Membership Inference Under Realistic Assumptions" at *TPDP* and *PPML workshops* co-located with *CCS* 2020 and *NeurIPS* 2020 conferences resp.
- 3. Gave an invited talk at Microsoft Research in Summer 2020 where I presented my work on membership inference attacks on machine learning models.
- 4. Gave a talk on evaluating privacy-utility trade-off of privacy preserving machine learning at *AIML seminar* held at University of Virginia in Fall 2019.
- 5. Gave a talk on evaluating privacy preserving-machine learning at Winter 2019 *DCAPS work-shop* held at University of Maryland College Park.
- 6. Presented my published work on "Evaluating Differentially Private Machine Learning in Practice" at *USENIX Security Symposium*, 2019.
- 7. Presented my published work on "Distributed Learning without Distress: Privacy-Preserving Empirical Risk Minimization" at *NeurIPS conference*, 2018.
- 8. Presented my published work on "Aggregating Private Sparse Learning Models using Multi-Party Computation" at *PPML workshop* co-located with *NeurIPS conference*, 2016.

(f) Awards and Achievements

- 1. Awarded travel grant at *USENIX Security Symposium*, 2019.
- 2. Awarded travel grant at NeurIPS conference, 2018.
- 3. Filed *three* patents while working at Accenture Technology Labs Bangalore.

(g) Professional Services

- 1. Program Committee Member for Privacy Preserving Machine Learning Workshop 2021.
- 2. Program Committee Member for Privacy in Machine Learning Workshop 2021.
- 3. Reviewer for ACM Conference on Computer and Communications Security Poster 2021.
- 4. Reviewer for IEEE Transactions on Dependable and Secure Computing 2021.