#### AAAI-23 Bridge: AI & Law

Breakout 4: Privacy Paul Ohm Professor of Law



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## Agenda

- 1. "Privacy" means...
- 2. Privacy Law
- 3. The data used to power ML and AI
- 4. Using ML/AI to attack privacy
- 5. Using ML/AI to defend privacy
- 6. New privacy rights and remedies
- 7. Friction

#### "Privacy" means...

- Right to be let alone
- Right to control information about oneself
- Personhood and autonomy
- Intimacy
- Personal growth
- Contextual integrity

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**Definition 2.4** (Differential Privacy). A randomized algorithm  $\mathcal{M}$  with domain  $\mathbb{N}^{|\mathcal{X}|}$  is  $(\varepsilon, \delta)$ -differentially private if for all  $\mathcal{S} \subseteq \text{Range}(\mathcal{M})$  and for all  $x, y \in \mathbb{N}^{|\mathcal{X}|}$  such that  $||x - y||_1 \leq 1$ :

 $\Pr[\mathcal{M}(x) \in \mathcal{S}] \le \exp(\varepsilon) \Pr[\mathcal{M}(y) \in \mathcal{S}] + \delta,$ 

#### **Privacy Law**

- Data Protection law (GDPR, CCPA, CPA)
- Consumer protection approach (FTC Act)
  - Unfairness
  - Deception
- Newer proposals
  - Duties of fairness or loyalty
  - Data transparency or disclosure
  - Data governance rules (CPOs, PIAs, privacy-by-design, audits)
  - Ground rules for data collection and sharing

#### The Data Used to Power ML and Al

- Surveillance and Information capitalism
- Data minimization and privacy-by-design
- Less data for training generally

# **Using ML/AI to Attack Privacy**

- Inferences and sensitive information
  - Gaydar, Target
  - Dobbs
  - Facial recognition
- Legal developments:
  - Colorado Privacy Act
  - Jones and Carpenter

#### **Colorado Privacy Act Rules**

"Sensitive Data Inference" or "Sensitive Data Inferences" means inferences made by a Controller based on Personal Data, alone or in combination with other data, which are used to indicate an individual's racial or ethnic origin; religious beliefs; mental or physical health condition or diagnosis; sex life or sexual orientation; or citizenship or citizenship status.

Controllers must obtain Consent to Process Sensitive Data, including Sensitive Data Inferences . . . .

## **Using ML/AI to Defend Privacy**

- Differential privacy
- Federated learning
- Al auditors

### **New Privacy Rights and Remedies**

- Right to delete / right to be forgotten
  Machine unlearning
- Legitimate interests and secondary purposes
- Model/AI disgorgement

#### Friction

- Paul Ohm and Jonathan Frankle, *Desirable Inefficiency*, 32 Florida Law Review 357 (2018).
- Brett Frischmann & Susan Benesch, Friction-In-Design Regulation as 21St Century Time, Place, Manner (forthcoming 2023).
- Paul Ohm & Brett Frischmann, *Governance Seams* (forthcoming 2023).
- Ellen Goodman, *Digital Fidelity and Friction*, 21 Nev. L.J. 623 (2021).

The Takeaway:

# Study something other than human behavior!!!

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#### Discussion