

## **A Gentle Introduction to Differential Privacy**

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### **Abstract:**

Computing technologies have made it much easier to gather personal data, including everything from GPS locations to medical records, from online behavior to social exchanges. Wide collection and extensive usage of such detailed personal information call for a strong, meaningful, and mathematically rigorous notion of privacy. In this talk, I will give an introduction to such a notion---differential privacy, together with several basic techniques to develop tools for privacy-preserving data analysis.