DATA-DRIVEN JUSTICE: DISRUPTING THE CYCLE OF INCARCERATION

February 1, 2017
DDJ Tech Mission Statement

Dramatically reduce technology barriers to allow any jurisdiction, regardless of size or capacity, to safely and securely share data across public safety and health systems to improve operations, identify those most in need of help, rapidly identify and go test interventions, and improve human outcomes.
THE LOOM TEAM

We are a venture backed team of five based in Redwood City, including former developers from Palantir, LinkedIn, Salesforce and Microsoft.

Our mission is improve operational and policy outcomes for government through secure data sharing.
Case Study: Johnson County, KS & UChicago Data Science for Social Good

GOAL
Identify high-utilizers of EMS & mental health services, plus law enforcement encounters in the County

• Paramedic transport logs
• Jail bookings
• Court records
• Probation records
• Mental health case management

FINDINGS
A key predictor for someone on the list was being disconnect from MHS ~2 years since last contact

- 52% went to jail in the next year
- 19 years (7,000 days) collective jail time served
- $250K per person absolute minimum cost of jail services

Case Study: Cambridge Police Department
Actual data from 26 y/o female

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<tr>
<th>Date</th>
<th>Type</th>
<th>Description</th>
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<tbody>
<tr>
<td>9/24/2016</td>
<td>VICTIM</td>
<td>DISTURBANCE</td>
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<td>6/16/2016</td>
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<td>6/2/2016</td>
<td>INVOLVED PARTY</td>
<td>MENTAL HEALTH</td>
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What could you do if you had these tools and insights from data across your systems?
With Loom, you can manage, search, and share sensitive data sets.
CHALLENGE

Managing data sharing and user agreements

LOOM FEATURE

Internal and external parties can request and be granted access in streamlined workflow.
**CHALLENGE**

Controlling who receives access to the individual-level data

**LOOM FEATURE**

Administer user permissions and monitor access logs enforce governance and legal agreements.
CHALLENGE

Discovering relevant data sets inside and outside of your organization

LOOM FEATURE

Full-text search across all data and metadata.
**CHALLENGE**

HIPAA Compliance

CJIS Compliance

**LOOM FEATURE**

De-identified data sharing and linking for research and analysis

**GOVERNANCE**

Jurisdictions

- Police
- EMS
- Mental Health
- Homelessness
- Substance abuse

**PERMISSIONS**

Raw, Identifiable

- J1
- J2
- J3

Mapping between hashed and original data

**GATED TRANSFER OF DATA**

**Analysis**

- R, Python, Jupyter

**GOVERNANCE**

De-identified

- J1
- J2
- J3
We need you!
We are building Loom in partnership with the DDJI and need jurisdictions to help us refine our approach.

https://thedataloom.com/gallery
APPENDIX
https://thedataloom.com/gallery
HIPAA and CJIS Compliant Data Protection Architecture

Jurisdictions

Mapping between hashed and original data

GOVERNANCE

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ON THE ROADMAP

Build structure of your legal agreement into who/how people can access your data
CHALLENGE

Managing data sharing and user agreements

ON THE ROADMAP

Auto-generated dataset recommendations