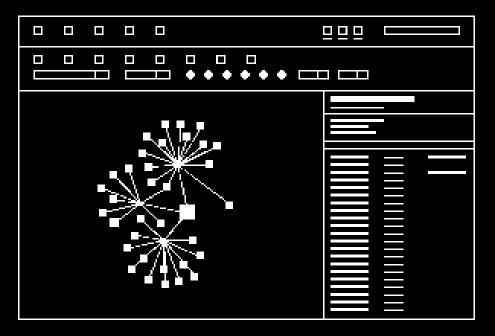
The Limits of Predictive Justice

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WE BUILD PLATFORMS FOR HUMAN-CENTERED, DATA-DRIVEN DECISION-MAKING

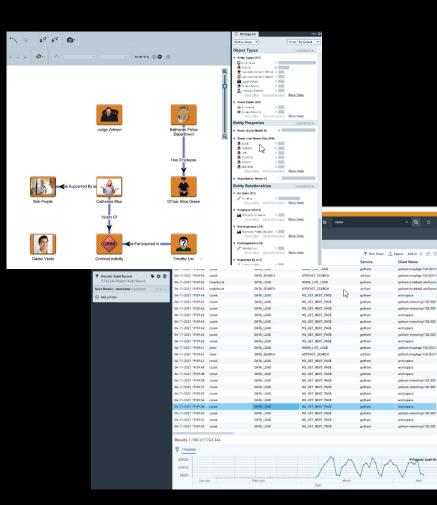


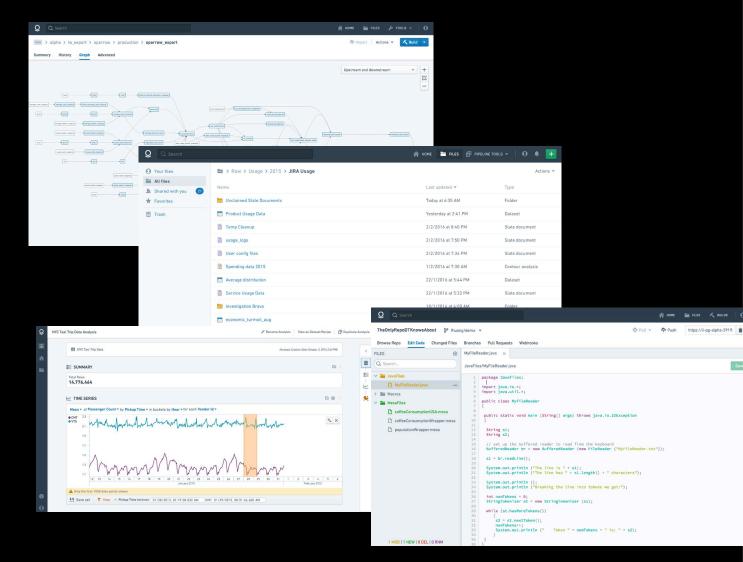
Gotham



Foundry

WE DON'T BUILD PREDICTIVE ALGORITHMS. WE PROVIDE PLATFORMS THAT ENABLE ANALYTICS.





Gotham

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CONSEQUENTIAL $\boldsymbol{\varepsilon}$ RESPONSIBLE AI BEGINS WITH THRESHOLD QUESTIONS

Practical Question:

What is the technology capable of and (more critically) not capable of doing?

Ethical & Normative Question:

What should the technology be permitted to do?

PRACTICAL LIMITS & CATEGORICAL CONSTRAINTS

Remember: computational "intelligence" is not intelligence as such

Al is a tool, not a panacea

Real-world empirical results matter





ETHICAL & NORMATIVE CONSIDERATIONS

Values help orient the application of science and technology

Awareness of cultural and social contexts align outcomes with community interests

Institutional standards and practices often exist for good reason

MOTIVATIONS FOR PREDICTIVE JUSTICE VERSUS LIMITATIONS

Motivations:

- Efficiency
- Scale
- Consistency
- Addressing human & systemic bias
- Making the fuzzy more concrete

Limitations:

- Computational processing is not human understanding
- Data & Machine bias
- Algorithmic opacity
- Conceptual irreducibility



Algorithms seek to trade computational efficiency for human expertise and systemic methodologies

In so doing, the administration of Justice becomes more focused on optimizing (distributive) outcomes according to metrics or other goals

But Justice in the sense we care most about may be just as much – or more – about the *Procedural* as it is about the *Distribution of desired outcomes*

Choosing to focus on Outcomes should be intentional and mindful of the implied tradeoffs.

PREDICTIVE JUSTICE APPLICATIONS NEED GROUNDING IN OPERATIONAL CONSIDERATIONS

"Operational AI" is:

- Embedded in the world, not playing in a laboratory
- Focused on the full data lifecycle, not just fairness metrics. This includes:
 - Provenance and lineage
 - Version control
 - Environment tracking
 - Testing and evaluation
 - Audit trails
 - First-order model and systems maintenance
- Respectful of end-user interactions
- Understanding of trade-offs and limits
- Mindful of the key Principles of Responsible Al...

1. Don't solve problems that shouldn't be solved.

- 2. Collect and Select Data Responsibly.
- 3. Methodically Assess and Address Sample Bias.
- 4. Carefully Monitor Outcomes, Understand Equity Assessment Tradeoffs.
- 5. Ensure Auditability, Explainability, and Interpretability.
- 6. Wherever Possible, Keep Humans in the Loop.
- 7. Promote Multi-Stakeholder Engagement.

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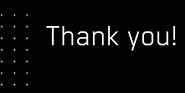
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Justice may not be the right place for predictive / Al interventions.

If the application passes the threshold assessments, tradeoffs must be understood and accounted for.

Consequential AI is grounded in sound operational practices and guiding principles that reinforce responsibility and keep humans at the center of systems that have impact on real lives.



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