

Ethical Issues

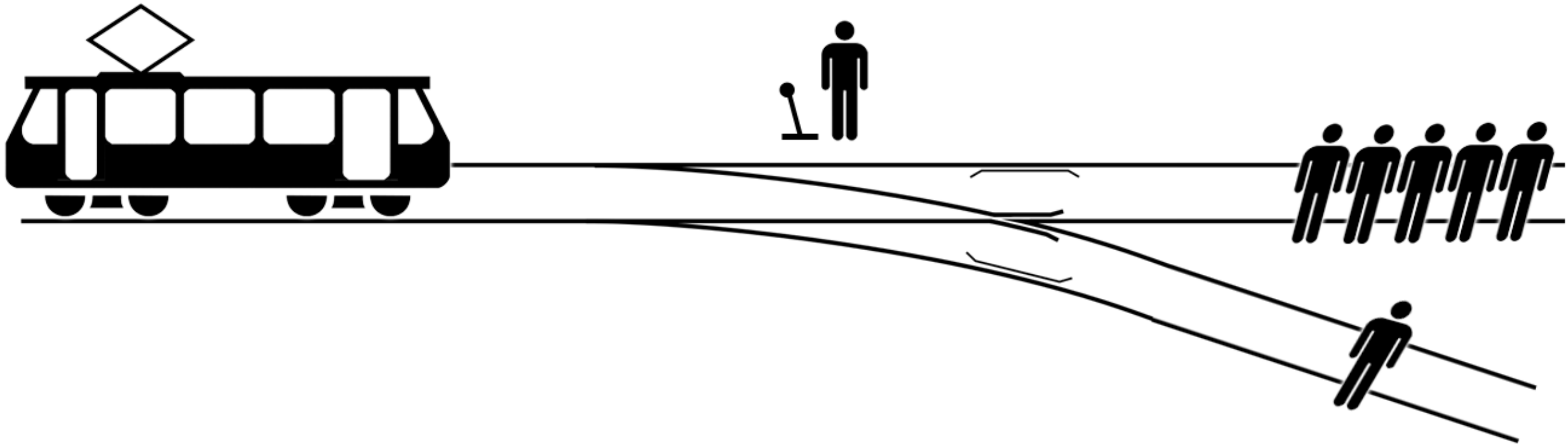
In Business Analytics

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Introduction

What is Ethics?

Introduction: What is Ethics?



Introduction: What is Ethics?

Code of Ethics

Introduction: What is Ethics?

Legal Obligations

Introduction

Why Ethics?

Concerns

Discrimination & Bias

Integrity

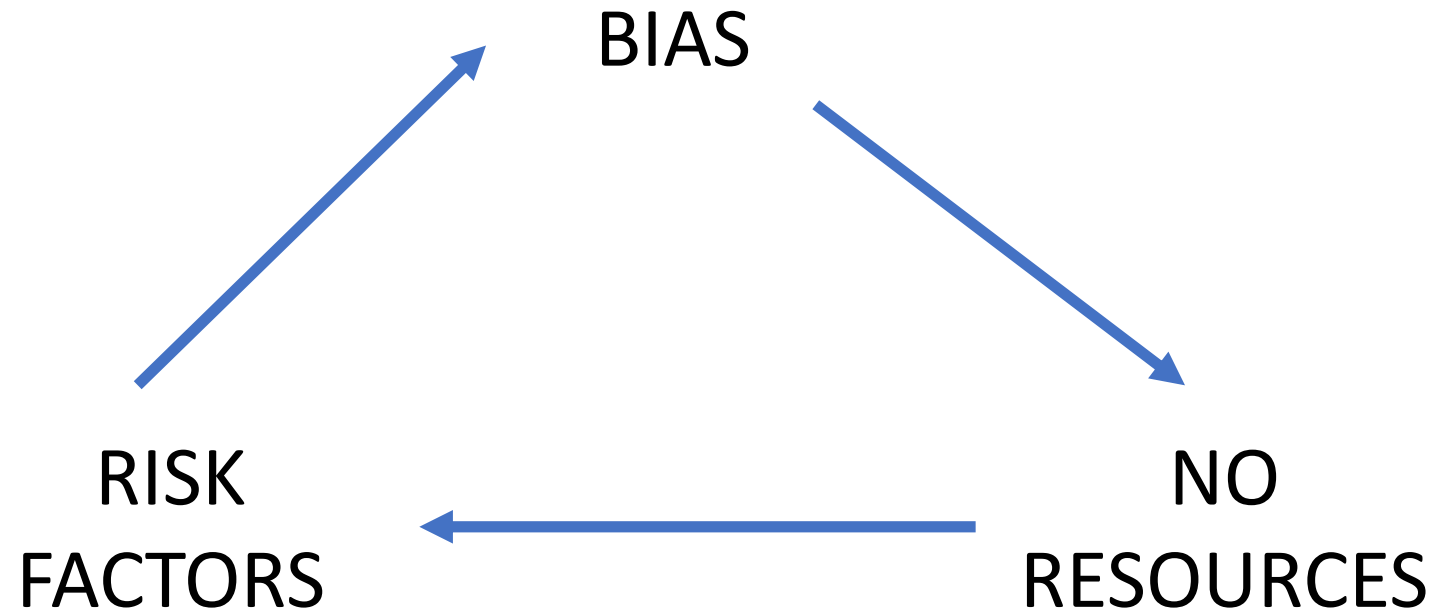
Lack of Transparency

Data Privacy Law

Concerns

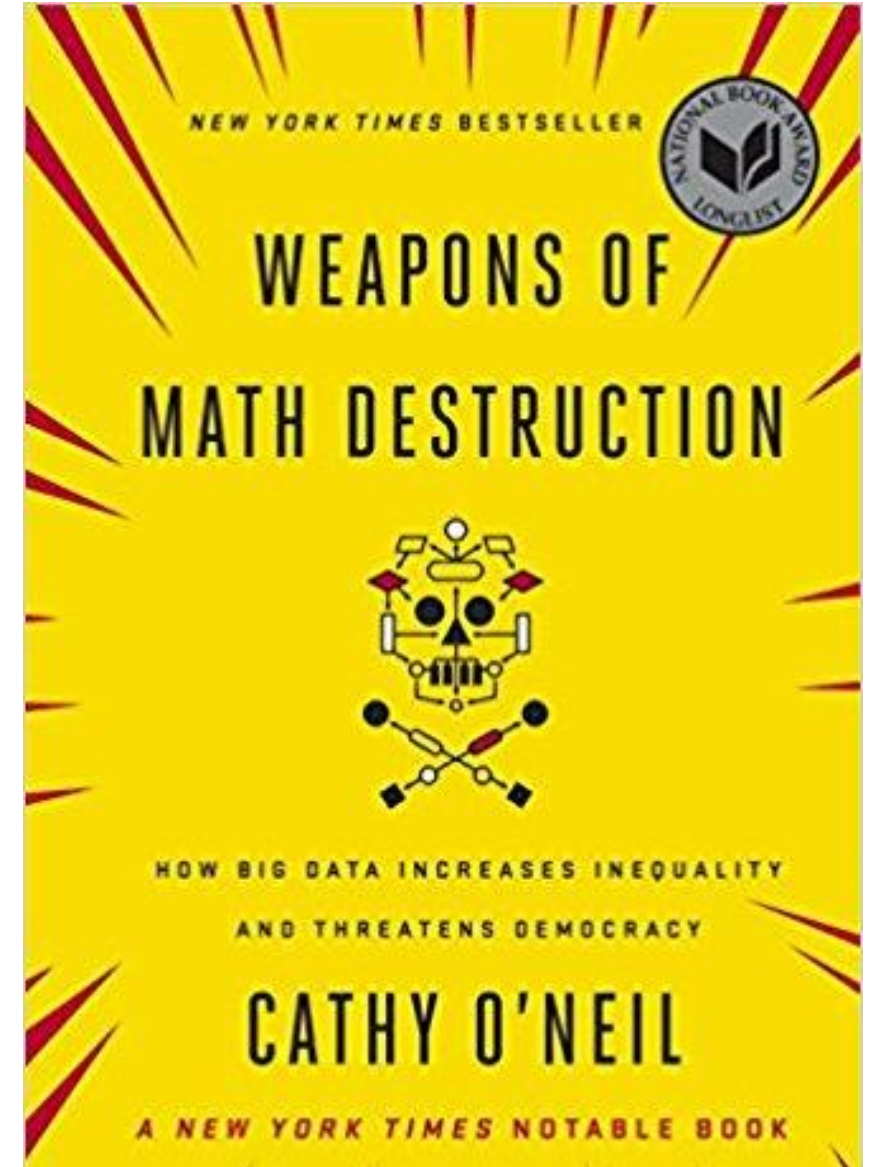
Discrimination & Bias

Concerns: Discrimination



Concerns: Discrimination

These are only tools, not ends in themselves



Concerns

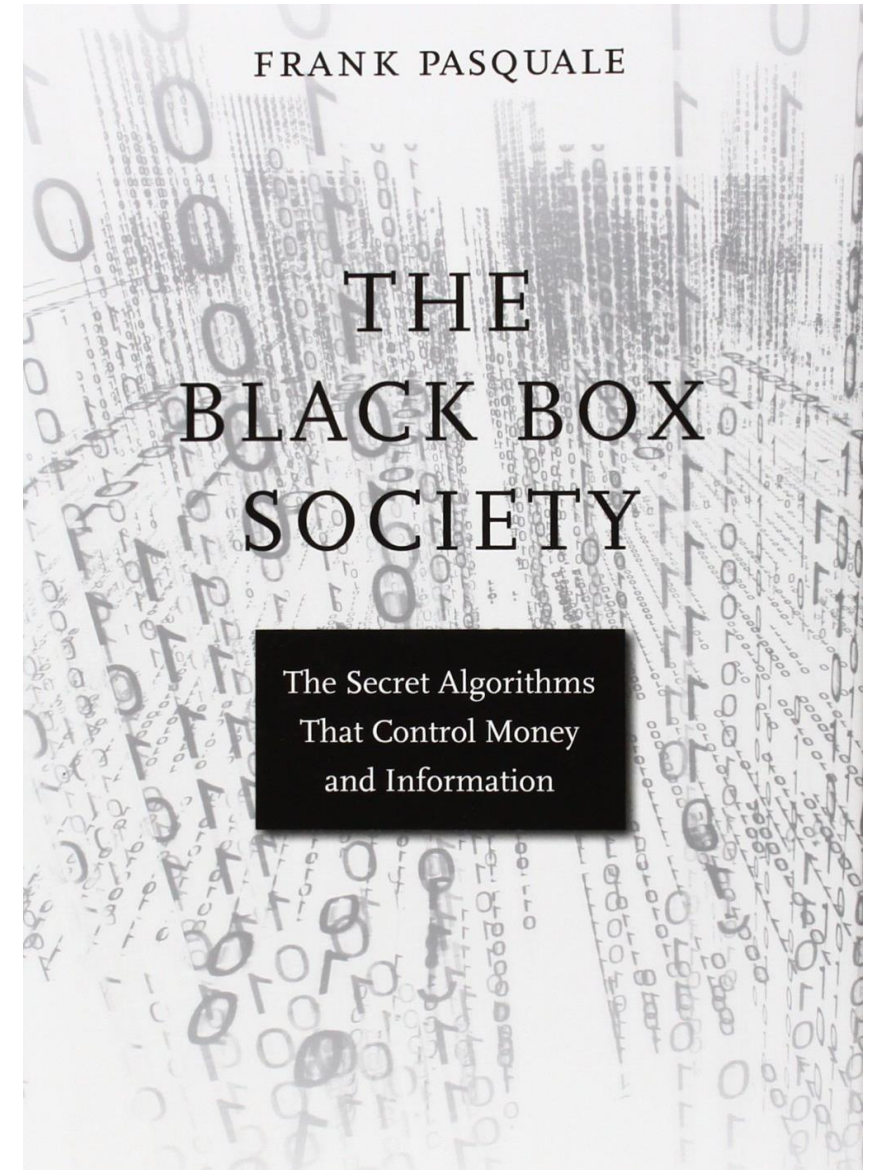
Integrity

Concerns

Transparency

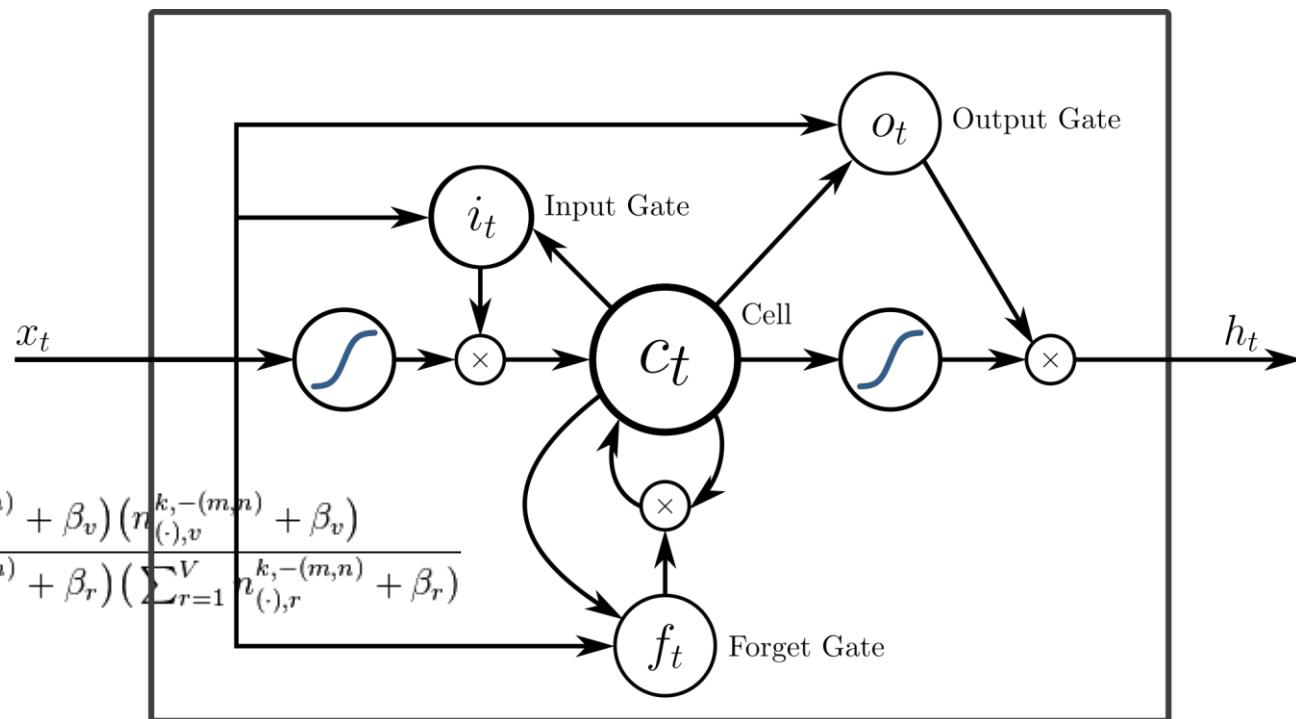
Concerns: Transparency

- What is black box?
- Can be convenient
- But opaque



Concerns: Transparency

$$\begin{aligned}
 &\propto \frac{\prod_{i \neq k} \Gamma(n_{m,(\cdot)}^{i,-(m,n)} + \alpha_i)}{\Gamma((\sum_{i=1}^K n_{m,(\cdot)}^{i,-(m,n)} + \alpha_i) + 1)} \prod_{i \neq k} \frac{\Gamma(n_{(\cdot),v}^{i,-(m,n)} + \beta_v)}{\Gamma(\sum_{r=1}^V n_{(\cdot),r}^{i,-(m,n)} + \beta_r)} \\
 &\times \Gamma(n_{m,(\cdot)}^{k,-(m,n)} + \alpha_k + 1) \frac{\Gamma(n_{(\cdot),v}^{k,-(m,n)} + \beta_v + 1)}{\Gamma((\sum_{r=1}^V n_{(\cdot),r}^{k,-(m,n)} + \beta_r) + 1)} \\
 &\propto \frac{\Gamma(n_{m,(\cdot)}^{k,-(m,n)} + \alpha_k + 1)}{\Gamma((\sum_{i=1}^K n_{m,(\cdot)}^{i,-(m,n)} + \alpha_i) + 1)} \frac{\Gamma(n_{(\cdot),v}^{k,-(m,n)} + \beta_v + 1)}{\Gamma((\sum_{r=1}^V n_{(\cdot),r}^{k,-(m,n)} + \beta_r) + 1)} \\
 &= \frac{\Gamma(n_{m,(\cdot)}^{k,-(m,n)} + \alpha_k) (n_{m,(\cdot)}^{k,-(m,n)} + \alpha_k)}{\Gamma(\sum_{i=1}^K n_{m,(\cdot)}^{i,-(m,n)} + \alpha_i) (\sum_{i=1}^K n_{m,(\cdot)}^{i,-(m,n)} + \alpha_i)} \frac{\Gamma(n_{(\cdot),v}^{k,-(m,n)} + \beta_v) (n_{(\cdot),v}^{k,-(m,n)} + \beta_v)}{\Gamma(\sum_{r=1}^V n_{(\cdot),r}^{k,-(m,n)} + \beta_r) (\sum_{r=1}^V n_{(\cdot),r}^{k,-(m,n)} + \beta_r)} \\
 &\propto \frac{(n_{m,(\cdot)}^{k,-(m,n)} + \alpha_k)}{(\sum_{i=1}^K n_{m,(\cdot)}^{i,-(m,n)} + \alpha_i)} \frac{(n_{(\cdot),v}^{k,-(m,n)} + \beta_v)}{(\sum_{r=1}^V n_{(\cdot),r}^{k,-(m,n)} + \beta_r)} \\
 &\propto (n_{m,(\cdot)}^{k,-(m,n)} + \alpha_k) \frac{(n_{(\cdot),v}^{k,-(m,n)} + \beta_v)}{(\sum_{r=1}^V n_{(\cdot),r}^{k,-(m,n)} + \beta_r)}.
 \end{aligned}$$



Concerns

Privacy

Concerns

Data Privacy Act

Addressing Concerns

Consent Required

Addressing Concerns: Data Privacy Act

The Right to be Informed

Addressing Concerns: Data Privacy Act

The Right to Access

Addressing Concerns: Data Privacy Act

The Right to Rectify

Addressing Concerns: Data Privacy Act

The Right to Complain

Addressing Concerns: Data Privacy Act

Data Protection

Summary

- Ethical dilemmas
- Discrimination/Bias, Integrity, Transparency, Privacy
- Professional Codes/Voluntary Codes
- Legal Duties under the Data Privacy Act