### ETHICS IN ARTIFICIAL INTELLIGENCE



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## Chief Data Officer Programs



### AI Solutions

Marketing
Human Resources
Supply Chain
Mergers & Acquisitions
Customer Service
Finance
Legal

Retail Insurance Banking Communications Healthcare

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### Contents

How does AI work?

Who is using it and for what?

What to look out for?

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### What is AI?

Human-like intelligence systems



Machine Learning Alexa, Siri, Watson

Robots

**Avatars** 

Chatbots

Google Duplex

Terminator









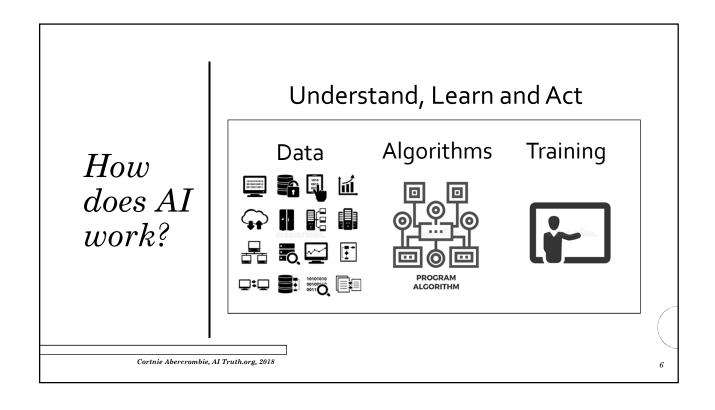


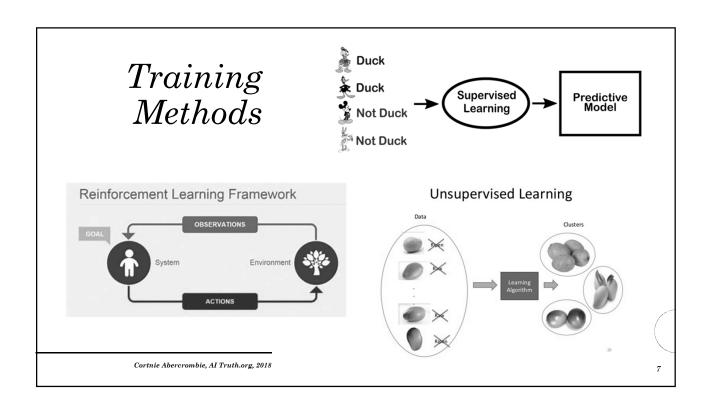




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What departments and for what purposes?

#### Personalization

CEOs Marketing & Digital Offices Sales Operations Innovation Office

# Questions & Support

IT Help Desk Customer Service Warranty desks First line sales

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# Preserve, Augment Expertise

Operations
Financial Advisers
Actuaries
Industry Specialists
Rare or Retiring Professions

# Compare & Comply

Industry-based compliance Legal Procurement Ledger-based departments Contract-based departments

What to look out for?

<u>Data</u> Algorithms Training

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### Data Cautions

- An algorithm is only as good as its data, so an Al is only as good as the data it was built from
- Everyone assumes their data is perfect
- Lots of assumptions get made about it
- Using the past to predict the future
- Its easy to get creepy when you have too much, especially personally sensitive info
- GIGO: Garbage In, Garbage Out
- Old Data <> New Outcomes
- Wrong data proxies

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### Data Hormones

Setting aside credible data practices due to the frenzied excitement of releasing an Al prototype Web Scraping

Don't do it

#### **Open Data & Data Brokers**

Vet sourcing & collection methods

#### **Business Partner Data**

check, validate, provide customers with options - don't be creepy

#### **Internal Data Bartering**

check data policies and regulations

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## Algorithms and Training

- Bias Harms
- Overwriting policies in key systems
- Transparency of how it works
- Explainability of decisions
- High stakes false negatives and false positives
- Systems not being trained by fully experienced personnel
- Gaps between the Business Leader in charge of the project and the data scientists developing the Al solution or system
- Re-purposing the algorithm

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#### **Allocation Bias**

Resources are denied because of classification





Redlining picture of Philadelphia in 1936, source: Wikipedia

#### Representational Bias

Identity-based: cultural, race, gender, socioeconomic, religious, political



Jacky Alciné

ews should leave israel jews should go back to poland ews should apologize for killing je



## What can you do?

Source: The Trouble with Bias, Kate Crawford, NIPS 2017 Cortnie Abercrombie, AI Truth.org, 2018

- Partner and compare notes with other AI SafeKeepers: Chief Data Officers, CISO, Chief Privacy Officers, CIOs, **Chief Legal Officers**
- Keep a pulse on AI projects and their intended purposes
- Develop AI data, algorithm and training policies and guidelines
  - Explainable
  - Transparent
- Insist on AI Ethics training as a pre-cursor to purchasing Al services or solutions – work with procurement and finance to collaborate on enforcement

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## Thank you

Please don't hesitate to reach out with any questions. You can find many of these pointers on AI Truth.org

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