Employment and Training in the Era of A



ABOUT US

Experts in technology product management and product.

Specialize in training.

Trained hundreds of thousands of people at companies around the world since 1993. STRATEGY

Business Marketing Positioning Plan Plan Market Market Buyer Revenue **Pricing Problems** Definition Experience Growth Win/Loss Distribution Buy, Build Buyer Revenue **Analysis** Strategy or Partner Retention Personas Distinctive Product Product User Launch Competencies Portfolio **Profitability** Personas MARKET **FOCUS SUPPORT BUSINESS PLANNING PROGRAMS ENABLEMENT** Competitive Sales Product Requirements Innovation Awareness **Programs** Landscape Roadmap Alignment Asset Use Nurturing Content **Operations** Assessment Scenarios

Stakeholder

Communications



Events

Channels

Sales

Tools

Channel

Training

Advocacy

Measurement

Al and Data Are Everywhere...





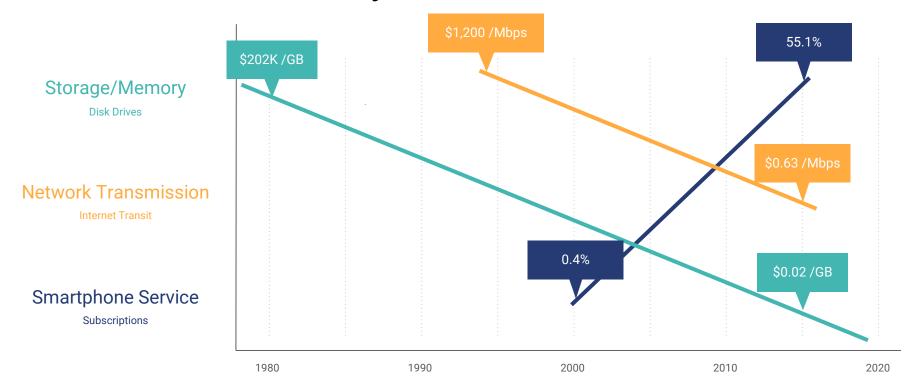








... and it's here to stay





Overview of Presentation

How AI and data are disrupting the world

Will we still have jobs?

The shortcomings of Al

The role for humans in a data-driven world

Technical and non-technical data roles

Learning paths for different technical roles

Data Analytics 1.0 vs. Data Analytics 2.0

Learning paths for business leaders





Al is replacing jobs...

of paid activities could be automated using 'currently demonstrated technologies'

of EU jobs are at risk of computerization

MCKINSEY & COMPANY

BRUEGEL

percent of U.S. workers have a high probability of seeing their jobs disrupted

of experts envision a future where robots displace significant numbers of human jobs

UNIVERSITY OF OXFORD

PEW RESEARCH CENTER



... but AI needs human supervision



Microsoft's Tay learned hate speech within a day from Twitter



Google Translate assumed doctors were "he" and nurses were "she"

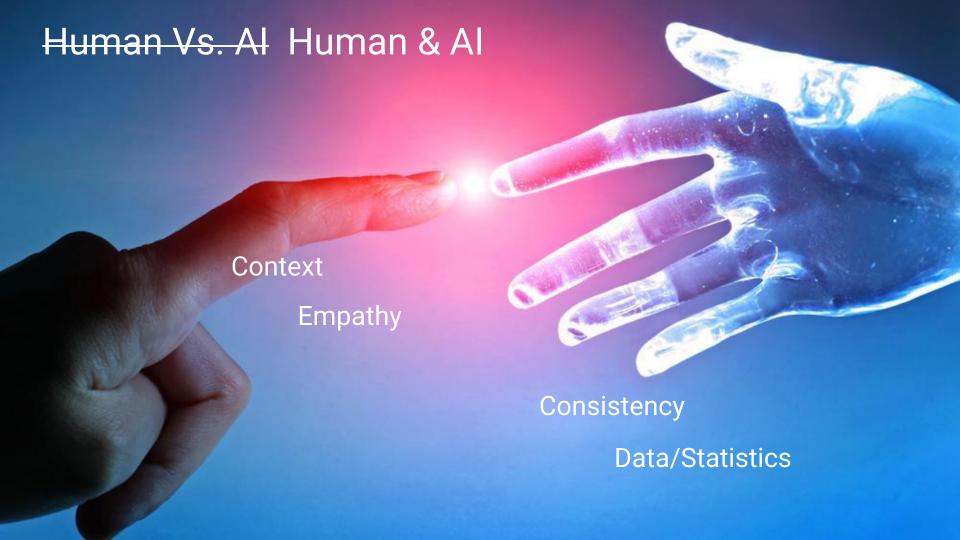


Amazon Al resume screener discriminated against women

facebook.

Facebook's ML algorithms accidentally allowed ad-targeting to anti-semitic groups



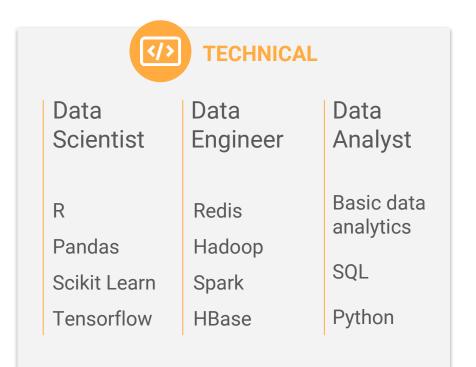


A Role For Humans in the Al World





Five Roles and Their Skill Sets





Learning Tracks for Technical Courses



Foundations of Data Science

- Basic Software Engineering
- Data Wrangling
- Data Visualization

Advanced Machine Learning

(for Data Scientists)

- Advanced Statistical Methods
- Natural Language Processing
- Machine Learning Pipelines
- Deep Learning and Al

Distributed Computing

(for Data Engineering)

- Hadoop
- Spark
- Machine Learning on Distributed Systems
- NoSQL and SQL databases



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Identifying Latent Talent and Skills Gaps



	Analytics 1.0 —	vs.— Analytics 2.0
Volume	KB and MB	GB and PB
Velocity	Slow, batch queries	Real-time, streaming updates
Variety	Structured tables in database	Unstructured data, text, image, audio, web



Business Skill Sets



What are bid data, machine learning and artificial intelligence and how are they affecting my business?

How do we analyze and select winning data science projects?

How do we manage successful data projects from conceptualization to completion?

How do we adopt a data-driven mindset within our group and the broader organization?



Greater Demand For Business Managers











The Business of

Data Science

pragmaticinstitute.com/businessofdata



Questions!

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