

AI, Automation & The Coyote

Sherri-Lee Mathers





CPD Process

In order to receive CPD credit

- Be sure to sign in or scan your badge for this session
- You must stay in the session for the duration of the training
- This session is eligible for 1 hour of CPD
- CPD certificates are emailed directly to you within 4 weeks of the conference date to the same email address you used to register



Today's speaker



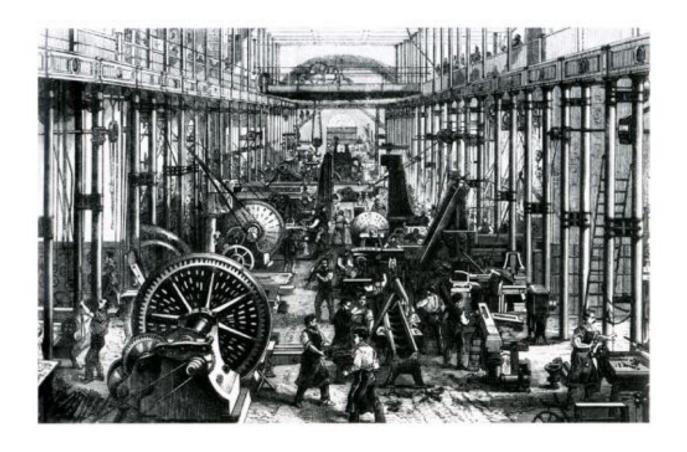
Sherri-Lee Mathers, CPB
Balsam Way Bookkeeping
@balsamway



Industrial Revolutions



Industrial Revolutions



- 1st Mechanical
 18th & 19th Century
 Water & Steam Power
- 2nd Science / Mass Production 1870-1914
 Electricity, Assembly Lines
- 3rd Digital Revolution
 1980's
 Computers, Internet



4th Industrial Revolution – 4IR



2016 Connectivity

- Robotics
- Artificial Intelligence
- Quantum Computing
- Internet of Things (IoT)
- 3D Printing
- Autonomous Vehicles, Drones



Automation & Artificial Intelligence

#QBConnect





Intelligence is the ability to adapt to change."



Image Source: ZME Science

Stephen Hawking



Understanding Intelligence



Reinforcement Learning, the ability to understand and draw conclusions

Train a Puppy - Must first 'codify/plan' the behavior

- Show toy give reward
- Picks up toy give reward
- Encourage bring toy to you give reward
- Doing it on their own without a reward is Intelligence

Algorithm is a process or set of guidelines that describe how to perform a task.



Understanding Automation & Al

Automation

- Where 45% of repetitive work can be done automatically
- Instruct it to 'fetch' data
- Instruct to send a report by email

Artificial Intelligence

- Computer remembers and understands the expected behavior of getting data & emailing
- Understands what to do with the inputs its been given because its been trained with similar inputs with a known outcome
- Computer is NOT a terminal



66

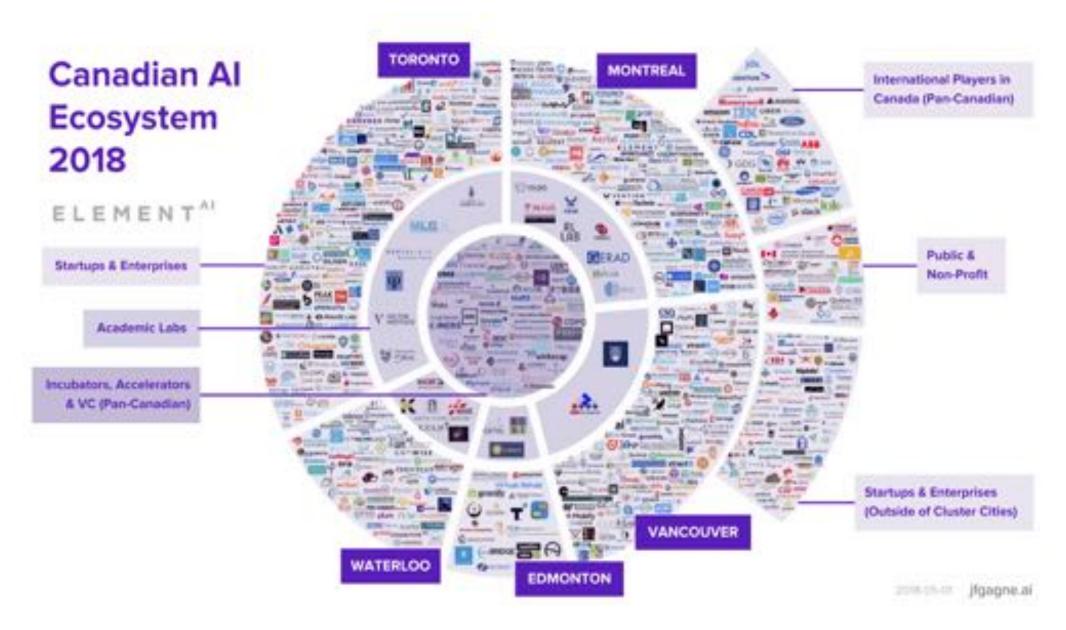
The pace of change has never been this fast, yet it will never be this slow again."



Image Source: pm.gc.ca

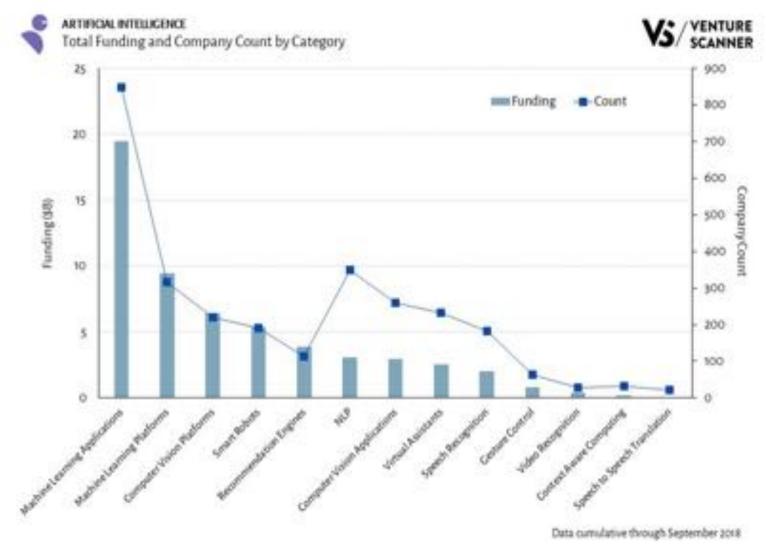
Justin Trudeau, Prime Minister of Canada





Source: Canadian Al Ecosystem Report jfgagne.ai.





Machine Learning Applications

Apply self-learning algorithms to optimize specific business operations. **\$19 Billion**

Source: https://www.venturescanner.com/blog/2018/artificial-intelligence-sector-overview-q3-2018





- Speech Recognition / Natural Language Understanding
- Pattern Recognition
- Robotics
- Computer Vision



Speech Recognition

Taking sound waves and building text out of it (understanding spoken words)

- Google home "hey google"
- Amazon Echo using Alexa
- Apple Siri
- Microsoft Cortana

Natural Language Understanding (NLU)

Text to machine understanding (enables human-computer interaction.

· Chata.ai 'how many sales transactions in California'





Pattern Recognition

Machine Translations

- Large Amounts of data +
- Mass computation power

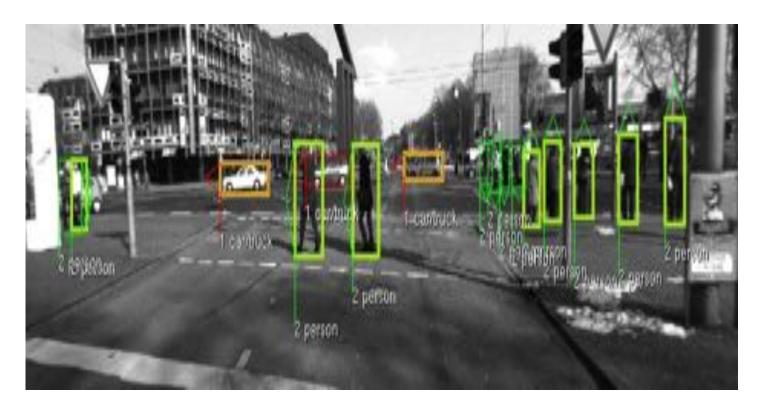
Al Auditor

- Complex algorithms, insights
- Question / Answer
- Data outliers
- Risk Assessment







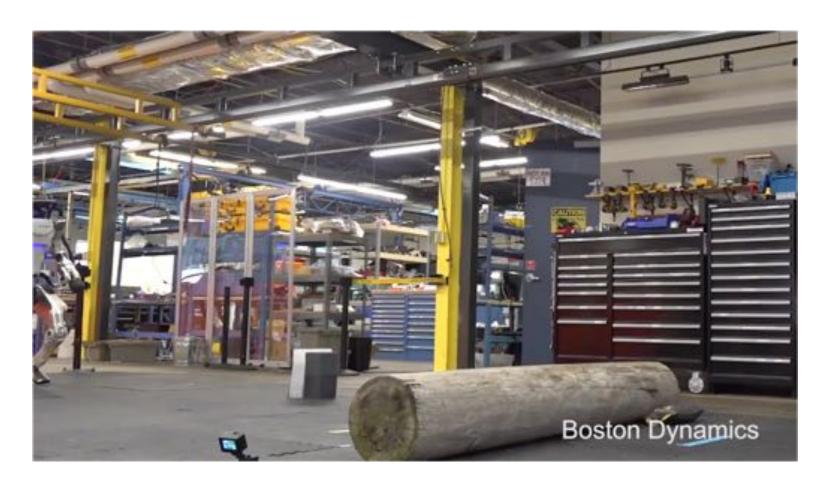


Pattern Recognition

- Automated recognition of patterns and irregularities in data (Facebook Photo tagging)
- Medical Field (irregular cells / image biopsies)
- Visual questions
- Identify objects in photos (count blood cells, cars)



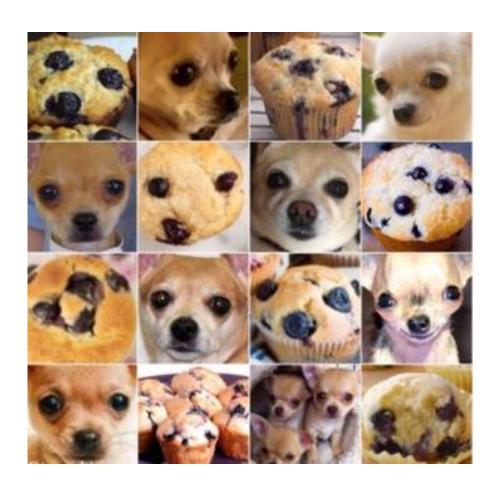




Robotics

- Intelligent physically embodied machine
- Perform tasks autonomously
- Manipulate their environment
- Warehouses / Human Support Robots / Room Service





Computer Vision

- Image classification (misclassification)
- Answer visual questions
- Raw pixels to predict final output

Image Source: https://medium.freecodecamp.org



20

IceBerg Hockey Analytics





#QBConnect

Applications of Automation & Al in Accounting

Assurance

Fraud

Auditing

Recruitment

Back Office Automation

Strategic (Predictive Cash Flow)

Compliance

• Smart Phone Integration

Customized Dashboards

Transaction Automation

Customer Service Chat Bots

Virtual Assistants





Business of Today/Tomorrow Using Automation & Al



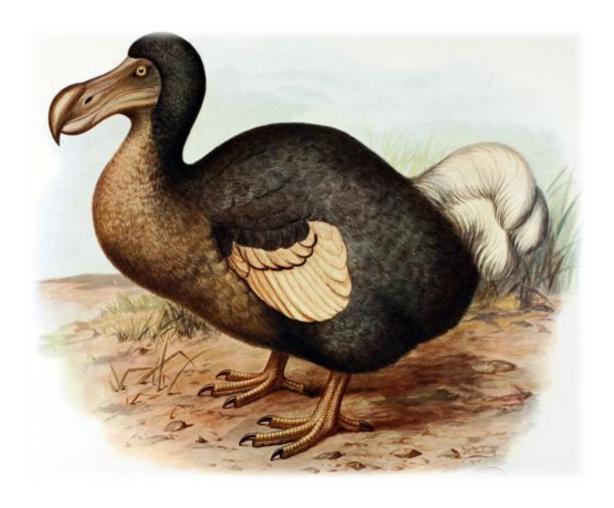


24

What do we do now?



Dodo Bird



EXTINCT

- Stable / Secure no predators
- Unable to Distinguish Predators from Friends
- Didn't recognize change and became complacent



Image Source: Wikipedia



It is not the strongest of the species that survives, nor the most intelligent that survives. It is the one that is the most adaptable to change."

Charles Darwin



Urban Coyote



Traits

- Adaptable
- Opportunistic Problem Solver
- Excellent Vision
- Speedy & Nimble
- Versatile (works alone/teams)
- Distinguish Predators from Friends
- Never Complacent



Be Like the Coyote

Coyote Traits

- Adaptable
- Opportunistic Problem Solver
- Excellent Vision
- Speedy & Nimble
- Versatile (works alone/teams)
- Distinguish Predators from Friends
- Never Complacent

New Accounting Professional

- Lead Customers through Change (expand)
- Provide more value remove customers anxiety
- See further ahead & proactively create systems
- Current / 'Live' is the new normal
- Work as a team (communicate / build trust)
- Say goodbye to being a 'traditionalist'
- If you don't change your competition is



Accounting Data Manager ADM formerly 'Bookkeeper'



Skill Up

- Need to be both Left & Right Brain
- Ability to communicate (connect)
- Planning (cash flows, monitor budgets)
- Understand where the data goes (mapping/clean-up)
- 'Canary in the mineshaft' (client education)

Data

- Process Design & Interpretation (needs analysis)
- Security (risk management)
- Recovery (backups)
- Integrity (clean data)



Accounting Professionals

Small Firms

- Niche (Boutique Firm)
- Small Business Specialist or Contract CFO (drive financial outcome to business goals)
- High Level Strategy & Business Transformation (expertise to the table)
- A 'different type of Engagement / Relationship'

Data

- Benchmarking
- High Level Analysis
- Decision Recommendation



Communication

- Engage More Often / Accountability
- No more 'Greek speak'
- Relevance

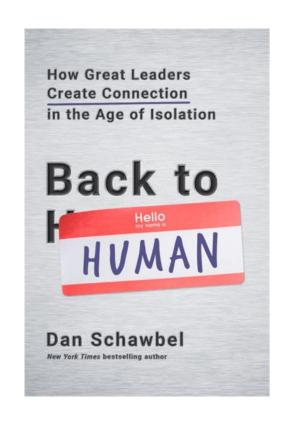


USE the TECH but be PRESENT COMMUNICATION is KEY





Optimize our experiences ...Use Automation and AI to provide insights but then focus on being present. 'forget the tech'



Dan Schawbel



Customer-centric

Business	Solve		
 Amazon 	Retail Industry bad customer service		

•	Netflix	•	Convenience & Late Fees
---	---------	---	-------------------------

- Over regulation, fare control & #s (availability)
 - Individual song purchases Not Albums
- Air B&B Availability & Pricing

MUST BE CUSTOMER-CENTRIC to SURVIVE



Uber

Apple Music

New Accounting Professional

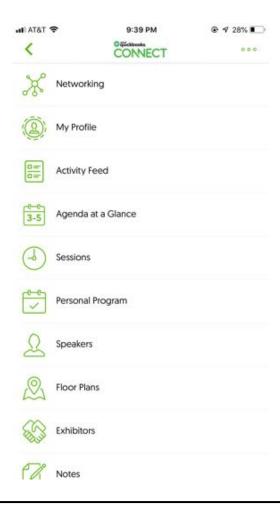
- Adaptable Say goodbye to being a 'traditionalist'
- Leave large growth to large firms, Boutique / Niche
- Skill Up
- See further ahead & proactively create systems and be able to interpret data (specialized knowledge that translates data into wisdom)
- CUSTOMER-CENTRIC

Questions?

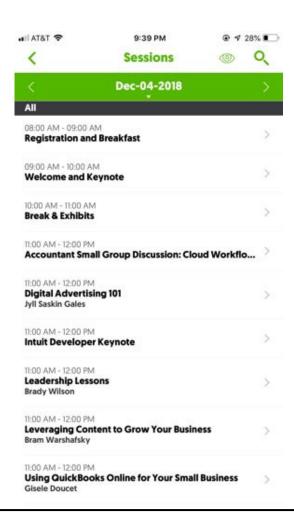


Rate this session in the mobile app

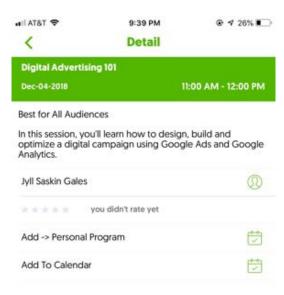
1. Select **Sessions**



2. Select Title



3. Add Rating





Material Download

Session slides can be found on the QuickBooks Connect agenda page

- 1) Find the session on the agenda
- 2) Select + for more information
- 3) Download PDF of slides

https://can.quickbooksconnect.com/agenda/

11:00 am-12:00 pm

Breakout Sessions

Digital Advertising 101	
Leveraging Content to Grow Your Business	9
Leadership Lessons	3
Using QuickBooks Online for Your Small Business	2
Warrior Approach to Productivity • session repeats	
Accountant Small Group Discussion: Cloud Workflows	9
Intuit Developer Keynote • session repeats	



opinituit quickbooks. CONSECT

