

ALLY FOR THE UNSTOPPABLE
ALLY FOR BUSINESS
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Building the Intelligent Enterprise



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In This Session

We will discuss the upcoming two day, expert-led interactive sessions on Building the Intelligent Enterprise from our speakers:

Hettie Tabor: Moderator and Host

Bryan Smith: Machine Learning & AI:

Travis Grubbs: Organizing for ML & AI

Jeff Johnson: Getting Started with ML & AI

Jeff Mettel: Long-Term Implications of ML & AI



Building the Intelligent Enterprise

The Building the Intelligent Enterprise session is a two high-powered day, expert-led interactive session that will:

- Explore and demystify ***big data, data science and artificial intelligence's*** latest iterations: machine learning and deep learning.
- Explore the skills leaders need to ***drive digital transformation***, harness data for results and lead an intelligent enterprise.
- Understand how to ***select, manage and measure*** the impact of projects and strategies.
- Examine ***ethical implications*** as the use of ***advanced analytics and AI*** expands exponentially.
- Walk away with ideas from leading thinkers about how the ***data revolution is reshaping society, culture and the nature of work***.

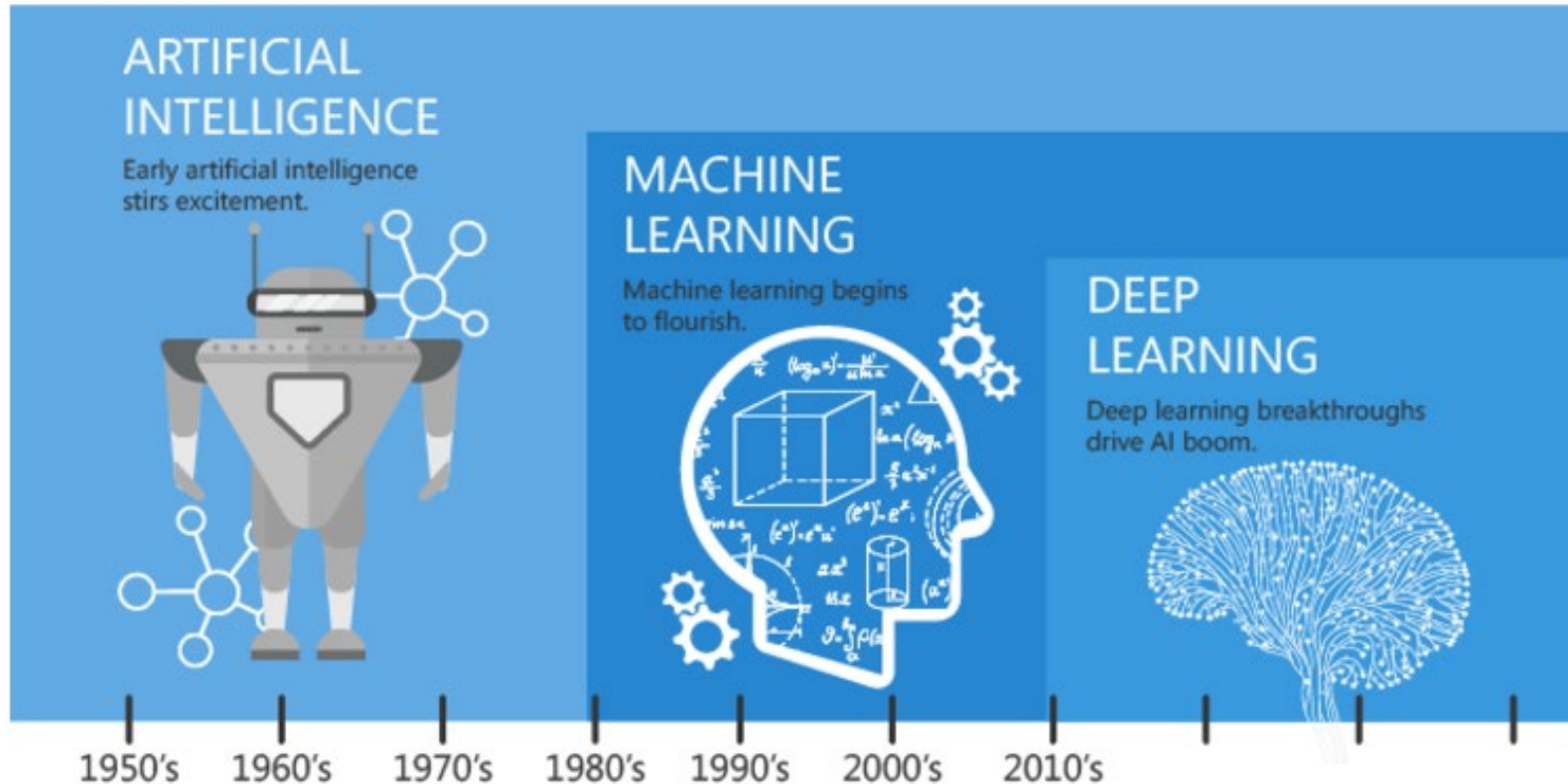


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AI, ML and Deep Learning

Next Generation of Analytics



Since an early flush of optimism in the 1950's, smaller subsets of artificial intelligence - first machine learning, then deep learning, a subset of machine learning - have created ever larger disruptions.



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AI, ML and Deep Learning Next Generation of Analytics

Artificial Intelligence

Machine Learning

Deep Learning

Supervised

Classification
identifying which categories (sub-populations) a new observation belongs

Decision Tree
uses a tree-like model of decisions and their possible consequences

Regression
statistical processes for estimating the relationships between a dependent variable independent variables

Unsupervised

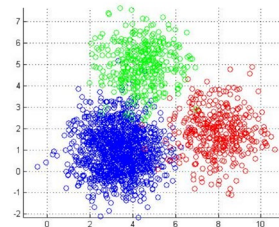
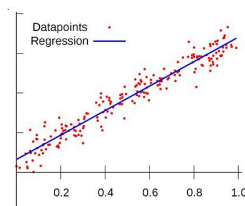
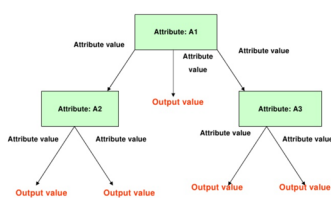
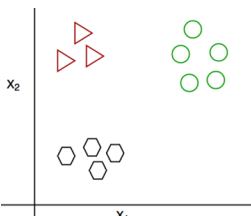
K-Means Clustering
grouping data into categories based on some measure of inherent similarity or distance

Reinforced Learning

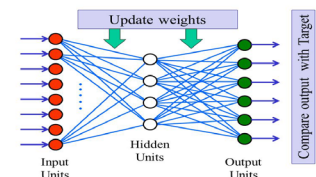
Reinforced Learning
How software actions take action in an effort to maximize rewards

Neural Networks

Neural Networks
systems inspired by biological neural networks. Such systems "learn" to perform tasks by considering examples, generally without being programmed with task-specific rules



Artificial Neural Network



Edward Tang (Copyright)

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Friday, 22 January 2016

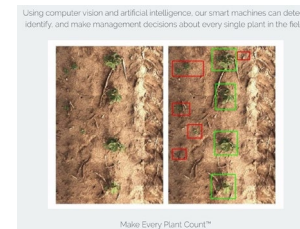


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Machine Learning and AI Examples

- Virtual Assistance – Apple's Siri, Microsoft's Cortana, Amazon Alexa, and Google Assistant (Artificial Intelligence)
- Facial Recognition – Blue River Technologies - working with John Deere with a “See & Spray” product.
- Self Driving Cars – have advanced control systems used to analyze data from different sensors and cameras to plan a path to the desired location.
- Chatbox – Providence built an online screening and triage tool that could rapidly differentiate between those who might really be sick with Covid-19 and those who appear to be suffering from less threatening ailments.
- Infrared Systems – Tampa General used infrared systems to separate patients from visitors.
- GPS Locators - South Korean Government developed apps using public government data allow users to see how close they are to where a confirmed Covid-19 patient has been.



I'm Grace. I'm here to guide you through the Coronavirus Assessment Tool.

If you're experiencing a life- or limb-threatening emergency, call [911](tel:911).

I'm not a substitute for professional medical advice, diagnosis, or treatment. Always consult a medical professional for serious symptoms or emergencies.

When you agree to our [Terms of Use](#) and our [Privacy Policy](#) we can continue.

[I Agree](#)

[Decline](#)



Above: Health officials screen arriving passengers from China with thermal cameras at Changi International airport in Singapore on January 22, 2020.



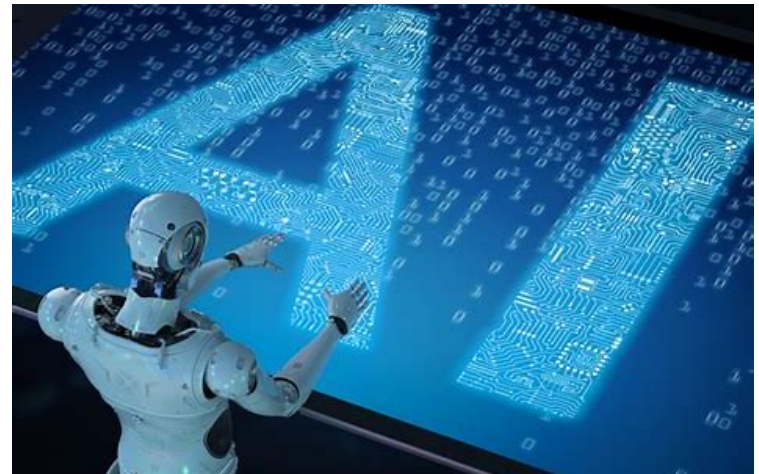
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Machine Learning and AI

Bryan Smith - Day 1, Morning:

- Machine Learning & AI: Hype vs. Reality – Hype Cycles;
- History of Data Science, ML & AI;
- Drivers of Adoption;
- State of the Industry;
- Barriers to Entry



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Organizing for ML and AI

Travis Grubbs - Day 1, Afternoon:

- Organizing for ML & AI – Building Data Driven & Data Literate Organizations;
- Critical Roles; Innovation Cycles & Uncertainty;
- Maturity Models



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Getting Started with ML and AI

Jeff Johnson - Day 2, Morning:

- Getting Started with ML & AI – First Projects & Evaluating Outcomes;
- Deployment Models & Business Impact;
- Managing Budgets;
- Mode 1/Mode 2 Technology Models;
- Insourcing vs. Outsourcing;
- Program Management



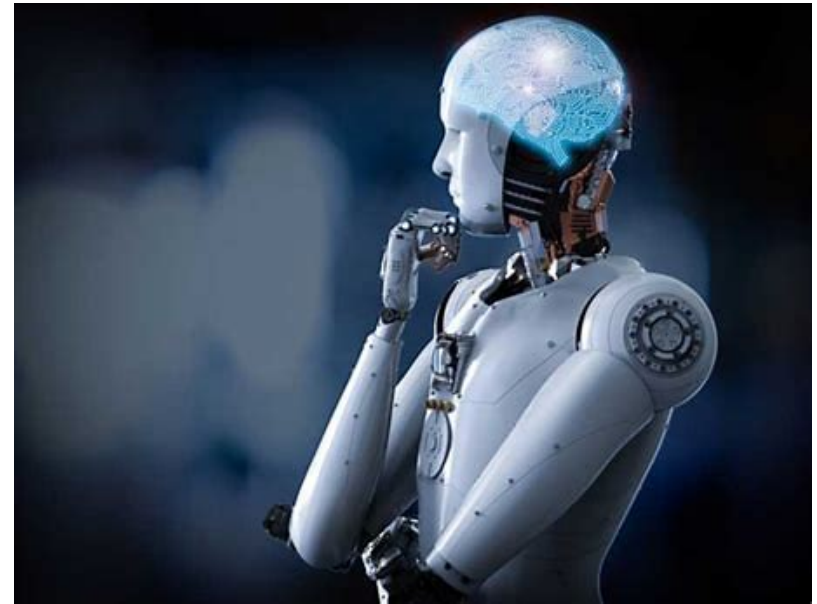
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Long Term Implications of ML and AI

Jeff Mettel - Day 2, Afternoon:

- Long-Term Implications of ML & AI – Moving to Sustained Adoption;
- Centralized vs. Decentralized Models;
- Resource Retention;
- Workforce Displacement;
- Ethical Use of Data & AI



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Q&A



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Who Should Apply?



- Leaders who want to deepen their understanding of today's digital transformation, including senior managers and executives launching data initiatives
- Business intelligence and data managers, engineers and architects
- Business line executives who want to become more AI and analytics savvy



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Additional Questions? Connect with Us.



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