

Machine Learning and PowerAI Workshop

Agenda

6:00PM – Food, mingle

6:15PM – Kickoff by Scott Souter

Global Offering Manager – Deep Learning and AI @IBM

6:30PM – Intro to AI and ML at IBM

Lennart Frantzell – Developer Advocate @IBM

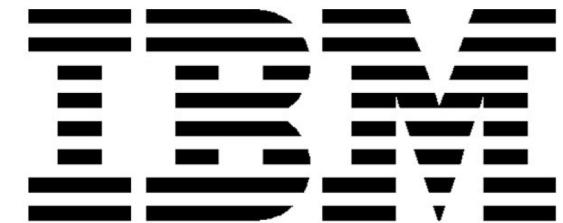
7:00PM – Introducing PointR Data

Saran Saund – CEO PointR Data

8:00PM – Rise of GPU Computing w/PowerAI +Demo

Justin McCoy – Developer Advocate @IBM

8:50PM – Wrap-up



SPEAKERS



Saran Saund
CEO PointR Data



Justin McCoy
IBM



Lennart Frantzell
IBM

Intro to AI and Machine Learning at IBM

Lennart Frantzell PhD, Developer Advocate, IBM

9/12/2018



CALL FOR CODE®

Answer the Call for Code by building global solutions for disaster preparedness.

The most impactful project will be implemented with the help of IBM, The Linux Foundation, UN Human Rights, and American Red Cross.

Get started

[Answer the call as an organization >](#)

Developer Resources

1. Check out the developer resources –such as the Watson Slack community or deep dive into Watson Academy courses - at the Watson Development Resource Center:

<https://www.ibm.com/watson/developer-resources/>

Access documentation, SDKs, communities and other resources to start building with Watson.

2. You are entitled to a \$200 credit when you upgrade your IBM Cloud account. A paid account allows you to access resources that are not available in Lite plans for building production ready cognitive apps. Click here to upgrade and claim your \$200 credit:

<https://console.bluemix.net/account/billing>

Watson Developer Resource Center

<https://www.ibm.com/watson/developer-resources/>

The screenshot shows the homepage of the Watson Developer Resource Center. At the top, there is a navigation bar with links: Watson, Stories, About, Developers (with a dropdown arrow), Offerings, Use Cases (with a dropdown arrow), and a blue 'Get Started' button. Below the navigation, there are four main sections: 'Documentation', 'Starter Kits', 'SDKs', and 'Collaborate & Learn'. The 'Documentation' section contains a brief description and three links: 'View documentation', 'Read getting started guide', and 'View Github repo'. The 'Starter Kits' section has a brief description and a link to 'See all starter kits'. The 'SDKs' section lists ten different SDKs with their respective installation links. The 'Collaborate & Learn' section includes links to Stack Overflow, developerWorks Answers, Slack, and various learning resources like webinars and courses.

Watson Stories About **Developers** ▾ Offerings Use Cases ▾ **Get Started**

Documentation

Learn how to set up your environment on IBM's cloud platform and start using Watson services.

→ View documentation
→ Read getting started guide
→ View Github repo

Starter Kits

Get a jumpstart building your cognitive app with code examples.

→ See all starter kits

SDKs

Download SDKs to start building with Watson APIs.

Swift SDK
[Installation](#) | [GitHub](#)

Ruby SDK
[Installation](#) | [GitHub](#)

OpenWhisk SDK
[Installation](#) | [GitHub](#)

Node SDK
[Installation](#) | [GitHub](#)

Java SDK
[Installation](#) | [GitHub](#)

Python SDK
[Installation](#) | [GitHub](#)

.NET SDK
[Installation](#) | [GitHub](#)

Unity SDK
[Installation](#) | [GitHub](#)

Salesforce SDK
[Installation](#) | [GitHub](#)

Collaborate & Learn

Stack Overflow
→ Explore the forum

developerWorks Answers
→ Explore the forum

Join us on Slack
↗ Slack invite link
↗ Slack channel

Learn
→ Webinars
→ Watson Academy Courses
→ Educational videos

IBM and AI: from business transactions to AI and ML

- **1956:** The field of AI research was founded at a workshop held on the campus of Dartmouth College: natural language processing, neural networks, theory of computation, abstraction and creativity. (John McCarthy, Stanford)
- **1987 Expert Systems**
- **1996, 1997. Deep Blue** The first match was played in Philadelphia in 1996 and won by Kasparov. The second was played in New York City in 1997 and won by Deep Blue.
- **2011 Watson Jeopardy** The IBM Challenge aired February 14–16, 2011, and featured IBM's **Watson computer** facing off against Ken Jennings and Brad Rutter in a two-game match played over three shows. This was the first man-vs.-machine competition in Jeopardy!'s history. Watson won both the first game and the overall match

Watson uses IBM's DeepQA software and the Apache UIMA, Unstructured Information Management Architecture, is an OASIS standard for content analytics.

IBM and AI

- **1956:** The field of AI research was founded at the first conference of Dartmouth College
- **1987 Expert Systems**
- **1996, 1997. Deep Blue** won by Kasparov. Deep Blue, a complicated board game was defeated on Tuesday by a Google DeepMind program. Adding insult to potentially deep existential injury, he was defeated at Go — a game that claims centuries of play by humans — in China, where the game was invented.
- **Watson** features a computer program. Ke Jie, the world's best player of what might be humankind's most complex board game was defeated on Tuesday by a Google DeepMind program. Adding insult to potentially deep existential injury, he was defeated at Go — a game that claims centuries of play by humans — in China, where the game was invented. May 23 2017

Watson uses IBM's DeepQA software and the [Apache UIMA](#), Unstructured Information Management Architecture, is an OASIS standard for content analytics,

Digitization, Big Data and AI

From an analog to a digital world



ASCII

From an analog to a digital world



ASCII



Big Data makes AI and ML possible



Data in Watson for Healthcare



- With IBM's planned [\\$2.6 billion acquisition of Truven Health](#), the company will add "200 million lives" to its data trove. "Lives" is a term typically used in the healthcare business for a data asset or record.
- And when it comes to big data analytics, the more data, the better, said IBM [\(ibm, -0.84%\)](#) Watson Health general manager Deborah DiSanzo. Truven brings still more data into IBM, which has already assembled quite the data pool, both on its own and via acquisition.

<http://fortune.com/2016/02/18/ibm-truven-health-acquisition/>

Data in Watson for Healthcare

IBM buys Merge for \$1 billion, gives Watson medical imaging heft

IBM beefs up Watson Health with the acquisition of Merge Technologies. The aim is to combine analytics with the ability to scan and manage medical images.

<https://www.zdnet.com/article/ibm-buys-merge-for-1-billion-gives-watson-medical-imaging-heft/>

Watson for Healthcare

IBM Watson for Genomics helps doctors give patients new hope.

Now clinicians across the U.S. can provide precision medicine to cancer patients. See how Watson for Genomics helps enhance doctors' confidence in personalized treatment approaches.

<https://www.ibm.com/watson/health/oncology-and-genomics/genomics/>

IBM Watson for Drug Discovery

Help researchers identify novel drug targets and new indications for existing drugs. The platform can help researchers uncover new connections and develop new treatments ahead of the competition.

[Learn more about Drug Discovery](#)

Social Program Management

Supporting government agencies in their work to deliver health and human services that enable citizens to meet their maximum potential while protecting the most vulnerable populations.

[Learn more about Social Program Management](#)

IBM Watson for Oncology

Spend less time searching literature and more time caring for patients. Watson can provide clinicians with evidence-based treatment options based on expert training by Memorial Sloan Kettering (MSK) physicians.

[Watson for Oncology](#)

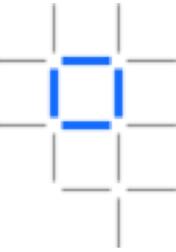
IBM Watson Care Manager

Use personalized care plans, automated care management workflows, and integrated patient engagement capabilities to help create more informed action plans.

<https://www.ibm.com/watson/health/>

Digitization + Big Data + the Cloud

•



Where do we host our applications?



IBM Cloud



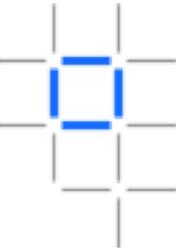
Microsoft
Azure



Alibaba Cloud



Cloud
Platform



Where do we host our applications?



IBM Cloud



Alibaba Cloud



Cloud
Platform

AI and the Cloud



IBM Cloud

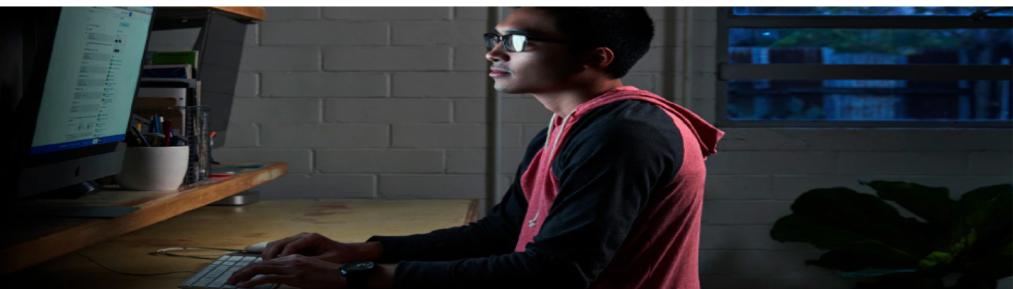
•

IBM Cloud Lite (Free Forever)

IBM Cloud Lite

Work with the best of IBM Cloud for an unlimited amount of time

[Get IBM Cloud Lite](#)



Offerings

Watson Conversation

Use a natural language interface to automate interactions with your users.

Details: 10,000 API calls per month

IBM API Connect™

Control your API lifecycle by creating, managing, enforcing and running APIs.

Details: 50K API calls per month

Cloud Foundry apps

Deploy your app without managing underlying infrastructure.

Details: 256 MB of memory

IoT Platform

Communicate with and consume data from connected devices and gateways.

Details: 500 registered devices and a max of 200 MB of each data metric

Watson Discovery

Identify patterns, trends and actionable insights that drive better decision-making.

Details: Up to 2,000 documents (or 200 MB) per month

Cloudant®

Access a fully managed NoSQL JSON data layer that is always on.

Details: 1 GB of data storage

Watson Personality Insights

Derive insights about personality characteristics from social media, enterprise data and more.

Details: 1,000 API calls per month

Push Notifications

Personalize and send unified push notifications through mobile and web devices in real time.

Details: 100,000 messages per month

Speech to Text

Convert spoken speech to written text.

Details: 100 minutes per month

[View full catalog](#)

[Let's talk](#)

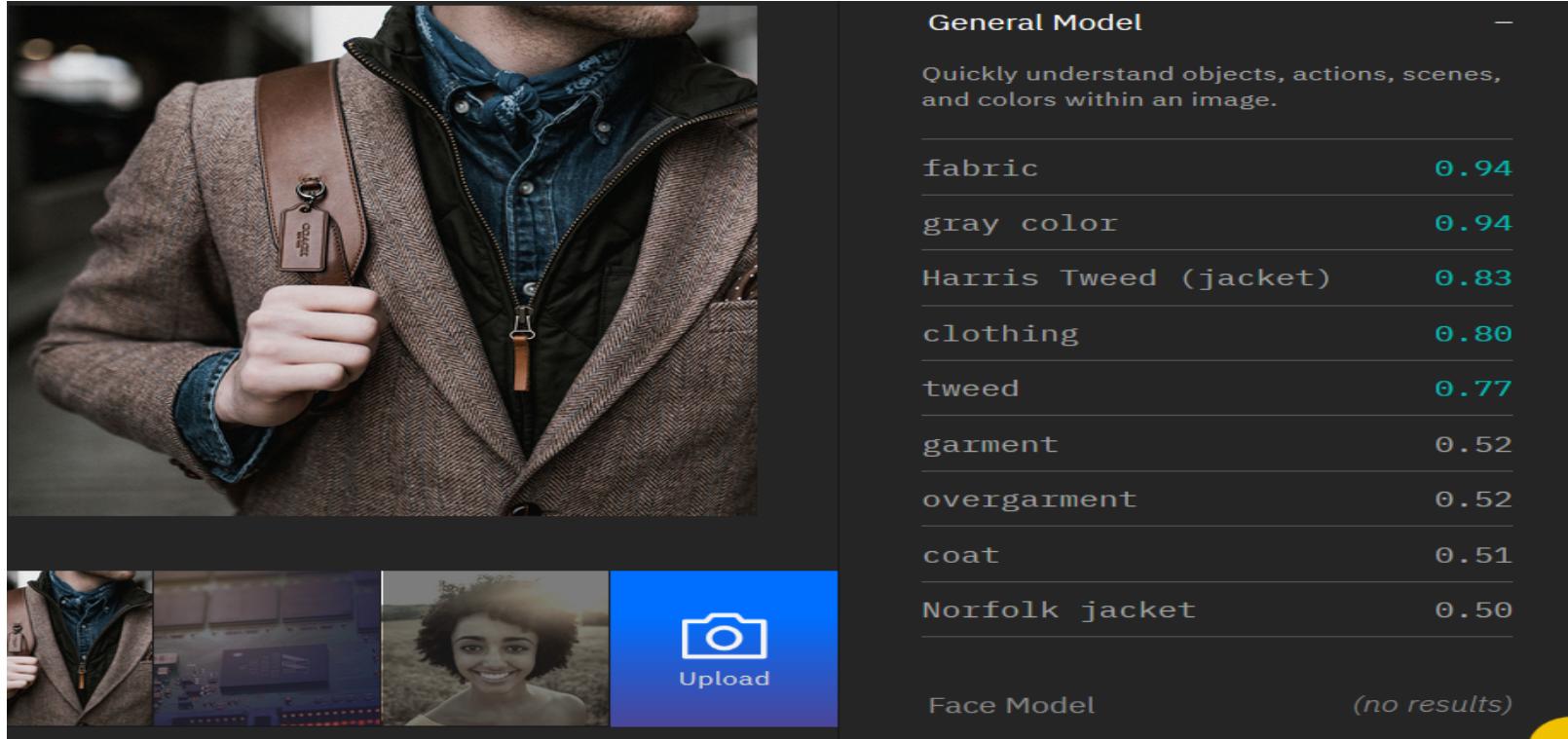
<https://www.ibm.com/cloud/lite-account/lite-account>

The IBM Public Cloud Lite - AI

AI

 Watson Assistant (formerly Conversation) Lite • IBM Add a natural language interface to your application to automate interactions with your end users. Common applications include virtu...	 AI OpenScale Lite • IBM IBM AI OpenScale operationalizes your AI with trust and transparency by giving your business the tools and confidence to deploy AI into thei...	 Compare Comply IBM • Beta Process governing documents to convert, identify, classify, and compare important elements	 Discovery Lite • IBM Add a cognitive search and content analytics engine to applications.
 Knowledge Catalog Lite • IBM Discover, catalog, and securely share enterprise data.	 Knowledge Studio Lite • IBM Teach Watson the language of your domain.	 Language Translator Lite • IBM Translate text, documents, and websites from one language to another. Create industry or region-specific translations via the service's...	 Machine Learning Lite • IBM IBM Watson Machine Learning - make smarter decisions, solve tough problems, and improve user outcomes.
 Natural Language Classifier IBM Natural Language Classifier performs natural language classification on question texts. A user would be able to train their data and the predi...	 Natural Language Understanding Lite • IBM Analyze text to extract meta-data from content such as concepts, entities, emotion, relations, sentiment and more.	 Personality Insights Lite • IBM The Watson Personality Insights derives insights from transactional and social media data to identify psychological traits	 Speech to Text Lite • IBM Low-latency, streaming transcription
 Text to Speech Lite • IBM Synthesizes natural-sounding speech from text.	 Tone Analyzer Lite • IBM Tone Analyzer uses linguistic analysis to detect three types of tones from communications: emotion, social, and language. This insight ca...	 Visual Recognition Lite • IBM Find meaning in visual content! Analyze images for scenes, objects, faces, and other content. Choose a default model off the shelf, or create...	 Watson Studio Lite • IBM Embed AI and machine learning into your business. Create custom models using your own data.

Watson Visual Recognition with ML in the IBM Public Cloud



The screenshot shows the Watson Visual Recognition interface. On the left, there is a large image of a person wearing a brown Harris Tweed jacket over a blue denim shirt. Below this main image are three smaller thumbnail images: a close-up of the jacket's collar, a circuit board, and a woman's face. To the right of these thumbnails is a blue button with a camera icon labeled "Upload". The main interface has two sections: "General Model" and "Face Model". The "General Model" section displays a list of detected objects with their confidence scores:

Object	Confidence Score
fabric	0.94
gray color	0.94
Harris Tweed (jacket)	0.83
clothing	0.80
tweed	0.77
garment	0.52
overgarment	0.52
coat	0.51
Norfolk jacket	0.50

The "Face Model" section shows "(no results)".

Quickly and accurately tag, classify and train visual content using machine learning.

Train models effortlessly with Watson Studio

<https://www.ibm.com/watson/services/visual-recognition/demo/index.html#watson-demo>

How about ML and some Chow Mien?



General Model

Quickly understand objects, actions, scenes, and colors within an image.

dish	0.85
nutrition	0.85
food	0.85
food product	0.79
light brown color	0.75
chow mein	0.71
vegetable	0.66
plant	0.66
bean sprout	0.66

Let's go for a drive with a Chatbot



- <https://conversation-demo.ng.bluemix.net/>

Watson Text to Speech

- <https://text-to-speech-demo.ng.bluemix.net/>

Speech Synthesis Markup Language

The screenshot shows the Watson Text to Speech demo interface. At the top, there are three tabs: 'Text' (selected), 'Expressive SSML', and 'Voice Transformation SSML'. Below the tabs is a text input area containing a paragraph about the Union's founding principles. A scroll bar is visible on the right side of the text area. At the bottom, there are several controls: 'Download' (button), 'Speak' (button), a circular 'Reset' button, and a playback progress bar showing a duration of 0:26. The progress bar includes a play button, a volume icon, and a mute icon.

Conscious of its spiritual and moral heritage, the Union is founded on the indivisible, universal values of human dignity, freedom, equality and solidarity; it is based on the principles of democracy and the rule of law. It places the individual at the heart of its activities, by establishing the citizenship of the Union and by creating an area of freedom, security and justice.

Text Expressive SSML Voice Transformation SSML

Conscious of its spiritual and moral heritage, the Union is founded on the indivisible, universal values of human dignity, freedom, equality and solidarity; it is based on the principles of democracy and the rule of law. It places the individual at the heart of its activities, by establishing the citizenship of the Union and by creating an area of freedom, security and justice.

Download Speak Reset

0:26 0:26

Watson Studio in the IBM Public Cloud

The screenshot shows the Watson Studio service page within the IBM Cloud Catalog. At the top, there's a navigation bar with links for Catalog, Docs, Support, Manage, and a user icon. Below the header, a sidebar on the left contains a brief description of Watson Studio, its purpose (democratizing machine learning), and its target audience (data scientists, developers, and domain experts). It also lists the service as a 'Service' type, published by IBM on 03/20/2018 from the United Kingdom, US South. There are 'View Docs' and 'Terms' links, along with 'Lite' and 'IBM' buttons. The main content area on the right shows configuration options: Service name (Watson Studio-gm), Choose a region/location to deploy in (US South), Choose an organization (alf@us.ibm.com), and Choose a space (dev). Below these, the 'Features' section is divided into four bullet points: 'Use what you know, learn what you don't', 'Power on demand', 'Be a founding member', and 'Collaborate for better outcomes'. Each feature has a detailed description underneath. At the bottom, there are links for 'Need Help?' (Contact IBM Cloud Sales) and 'Estimate Monthly Cost' (Cost Calculator), along with a prominent blue 'Create' button.

<https://console.bluemix.net/catalog/services/watson-studio>

Watson Studio



Welcome Lennart!

Watson Studio is part of IBM Watson.

[Try out other IBM Watson apps.](#)

Get started with key tasks



Refine data

New notebook

Deep learning

New Modeler flow

New model



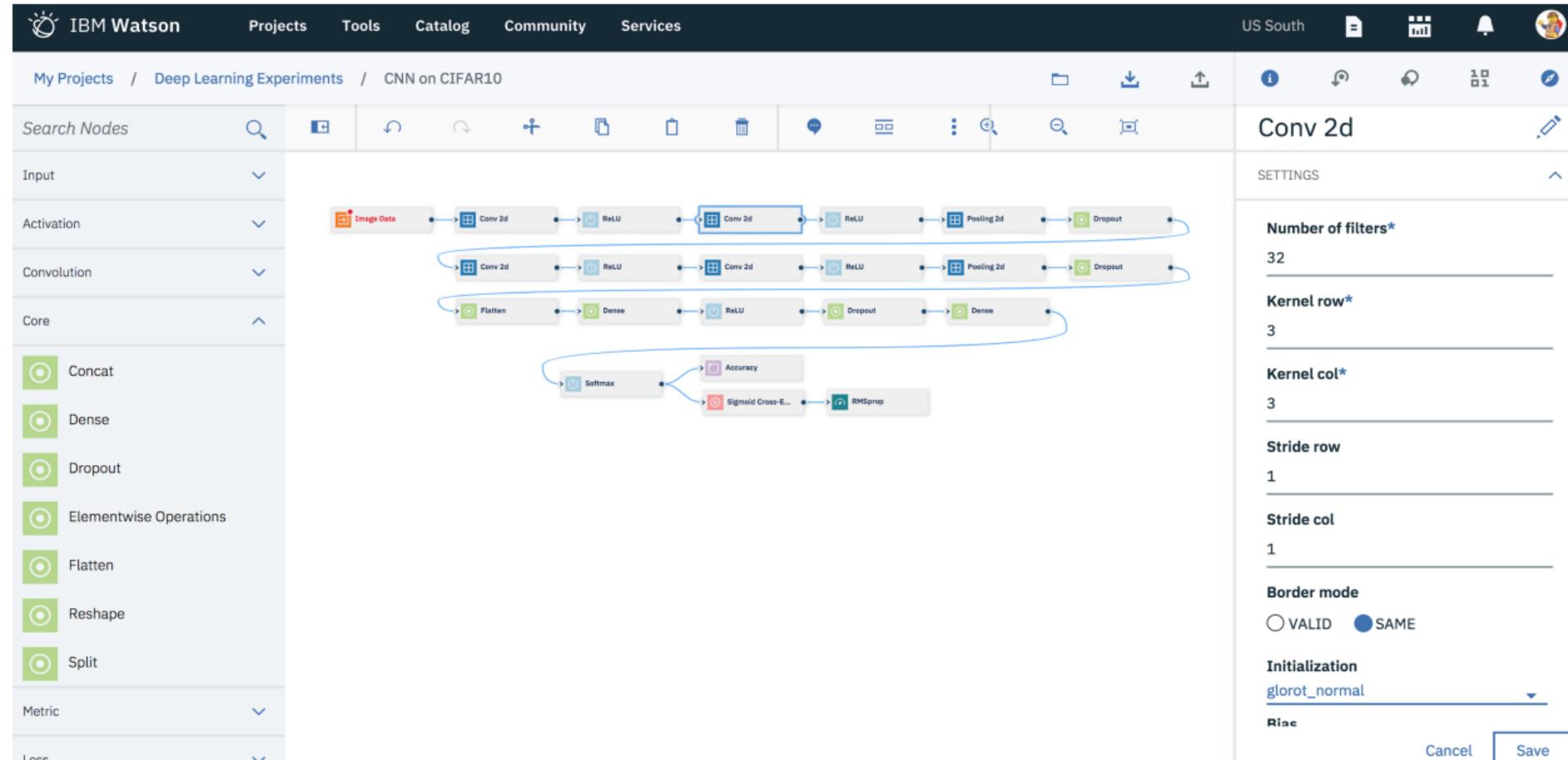
Deep Learning in Watson Studio

What is Deep Learning?

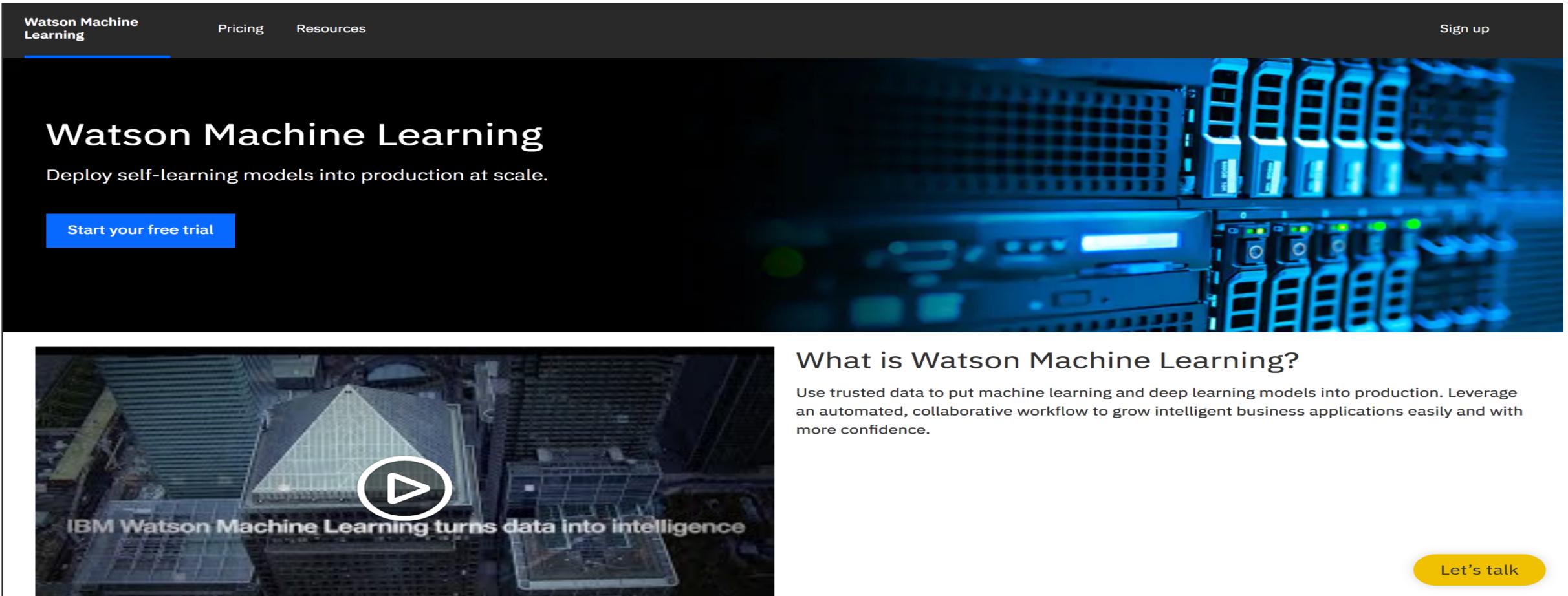
IBM's experiment-centric deep learning service within Watson Studio allows data scientists to visually design their neural networks and scale out their training runs while auto-allocation means paying only for the resources utilized. Optimized for production environments, scale up your training using the NVIDIA® Tesla® V100 GPU with your preferred deep learning framework then easily deploy to the cloud or at the edge.

Deep Learning features	Experiment Assistant Initiate and monitor batch training experiments then compare cross-model performance in real-time without worrying about log transfers and scripts to visualize results. You focus on designing your neural networks. We'll manage and track your assets.	Open and flexible Use your preferred deep learning framework: Tensorflow, Keras, PyTorch, Caffe and more. Manage your deep learning experiments with the tools you prefer: command-line interface (CLI), Python library or an interactive user interface.	Elastic GPU compute Train neural networks in parallel using market-leading NVIDIA® Tesla® GPUs - K80, P100, and V100. Pay only for what you use. Auto-allocation means no more remembering to shutdown your cloud training instances. No clusters or containers to manage.
	Hyperparameter optimization Efficiently automate searching your network's hyperparameter space to ensure the best model performance with the fewest training runs.	Neural Network Modeler (beta) Visually design your neural networks. Drag-and-drop layers of your neural architecture then configure and deploy using the most popular deep learning frameworks.	<a data-bbox="2342 1245 2496 1288" href="#">Let's talk

IBM Watson Studio and Neural Network Modeler



Watson Machine Learning



The screenshot shows the Watson Machine Learning landing page. At the top, there's a navigation bar with links for "Watson Machine Learning", "Pricing", "Resources", and "Sign up". Below the navigation is a large banner featuring a server rack with blue lights. The banner has the title "Watson Machine Learning" and the subtitle "Deploy self-learning models into production at scale." It includes a blue button labeled "Start your free trial". To the left of the banner is a video thumbnail showing a city skyline with a play button overlay and the text "IBM Watson Machine Learning turns data into intelligence". To the right of the banner is a section titled "What is Watson Machine Learning?" with a descriptive paragraph and a yellow "Let's talk" button.

Watson Machine Learning

Pricing Resources Sign up

Watson Machine Learning

Deploy self-learning models into production at scale.

Start your free trial

IBM Watson Machine Learning turns data into intelligence

What is Watson Machine Learning?

Use trusted data to put machine learning and deep learning models into production. Leverage an automated, collaborative workflow to grow intelligent business applications easily and with more confidence.

Let's talk

<https://www.ibm.com/cloud/machine-learning>

AI in IBM Research

IBM Research Research areas ▾ Work with us ▾ About us ▾ Blog



IBM Research Labs

Africa

Nairobi, Kenya, and Johannesburg,
South Africa

[→ Explore labs](#)

Australia

Melbourne, Australia

[→ Explore lab](#)

Brazil

São Paulo and Rio de Janeiro,
Brazil

[→ Explore labs](#)

China

Beijing and Shanghai, China

[→ Explore labs](#)

India

Delhi and Bengaluru, India

[→ Explore labs](#)

Ireland

Dublin, Ireland

[→ Explore lab](#)

Israel

Haifa, Israel

[→ Explore lab](#)

Japan

Tokyo and Shin-kawasaki, Japan

[→ Explore labs](#)

Switzerland

Zurich, Switzerland

[→ Explore lab](#)

United States - Almaden

San Jose, California, USA

[→ Explore lab](#)

United States - Austin

Austin, Texas, USA

[→ Explore lab](#)

United States - Thomas J. Watson Research Center

Yorktown Heights, New York, USA

[→ Explore lab](#)

IBM Nairobi Research Center



PERSONALIZED LEARNING

African schools are using cognitive systems to help shape the future of education

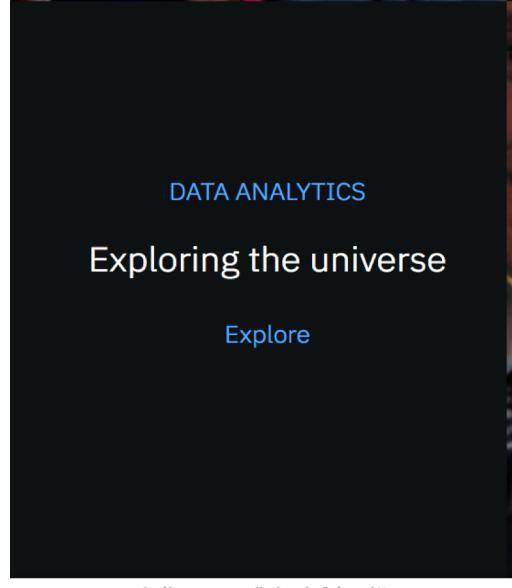
[Explore](#)



COGNITIVE HEALTHCARE

Data-driven healthcare

[Explore](#)



DATA ANALYTICS

Exploring the universe

[Explore](#)



ARTIFICIAL INTELLIGENCE

Applying AI to address real-world problems

[Explore](#)



Research Areas

Artificial Intelligence

@ IBM Research

AI Platform for Business

Hardware and The Physics of AI

Project Debater

Towards Human-Level Intelligence

Future of computing

Semiconductors

Quantum Computing

Transforming Industries with AI and Science

Healthcare and Life Sciences

Energy and Environment

Internet of Things

Science for Social Good

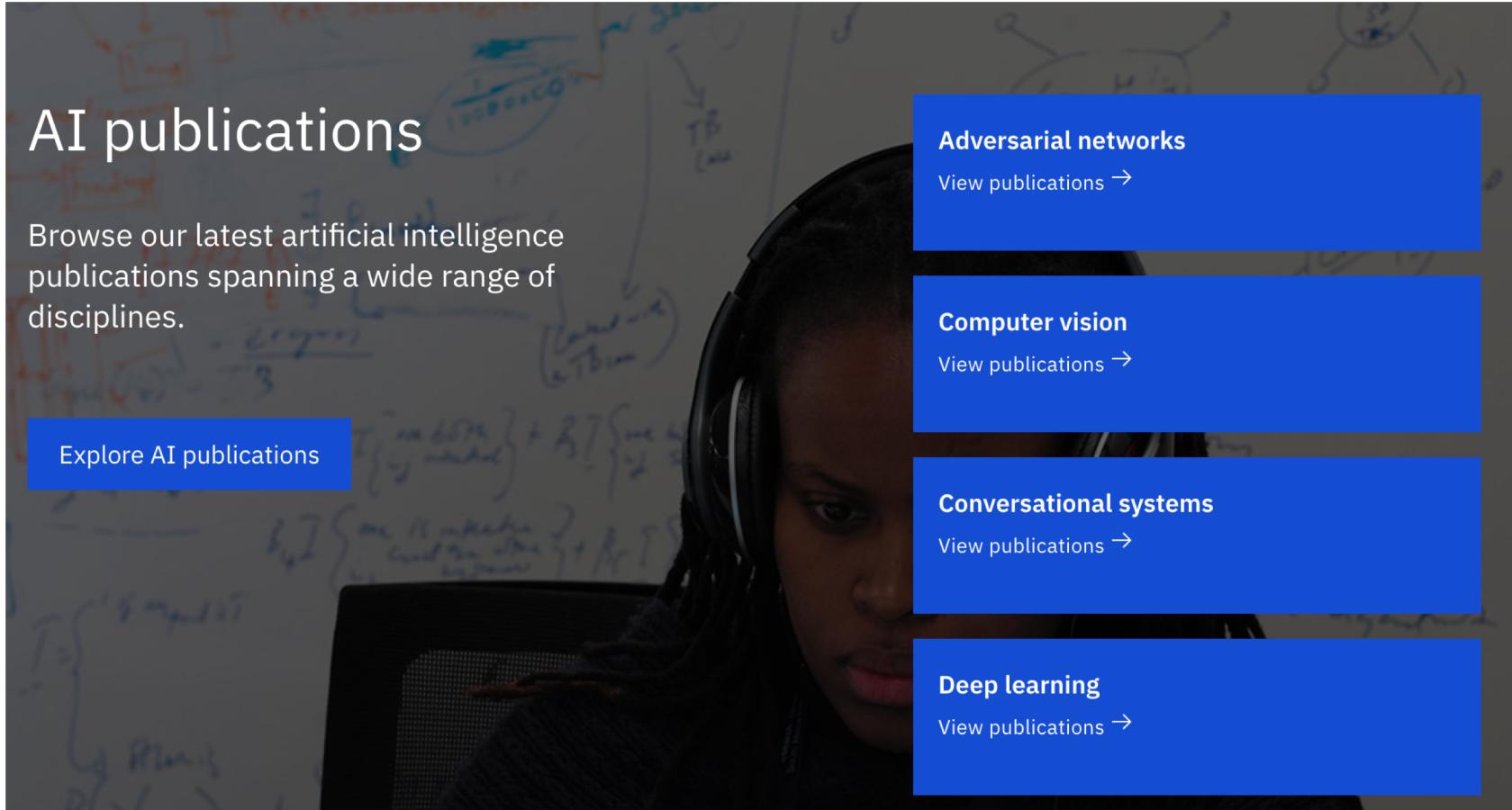
Accessibility

Financial services

Defining Blockchain

Blockchain

AI at IBM Research



- <https://www.research.ibm.com/artificial-intelligence/>



Towards Human-Level Intelligence

To help AI achieve the most complex human-like tasks, we are powering advances in computer-based sensing, understanding, and action.

- Mastering language is a perfect example.
- Reasoning is yet another fundamental capability of humans. While machine learning provides a foundation for building understanding, via induction of models from data, it cannot provide deep explainability or make inferences from higher-level knowledge
- Humans also excel at applying what they have learned in one domain to new tasks.

<https://www.research.ibm.com/artificial-intelligence/towards-human-level-intelligence/>



AI Platform for Business

To let data scientists focus on models and data, we are innovating to create an AI platform that handles computation speed, scale, hardware selection, and placement. Advances in deep learning as a service, novel programming languages and programming models for AI, and elastic resilient deep learning at scale are examples of **AI-optimized programming models and runtimes**.

<https://www.research.ibm.com/artificial-intelligence/ai-platform-for-business/>

Hardware and the Physics of AI



IBM Research is working to understand the interaction between AI algorithms and the underlying hardware to apply quantum computing for AI, as well as using AI to characterize and optimize quantum systems.

<https://www.research.ibm.com/artificial-intelligence/physics-of-ai/>

Can artificial intelligence

expand
a human
mind?

IBM
Project
Debater

<http://www.research.ibm.com/artificial-intelligence/project-debater/>

AI, Machine Learning and hardware

IBM Bets on Artificial Intelligence With Its POWER9 Chip

The company is hoping to carve out a presence in the hyperscale data center market with its AI-optimized processor.

The work horses: Deep (Machine) Learning Frameworks

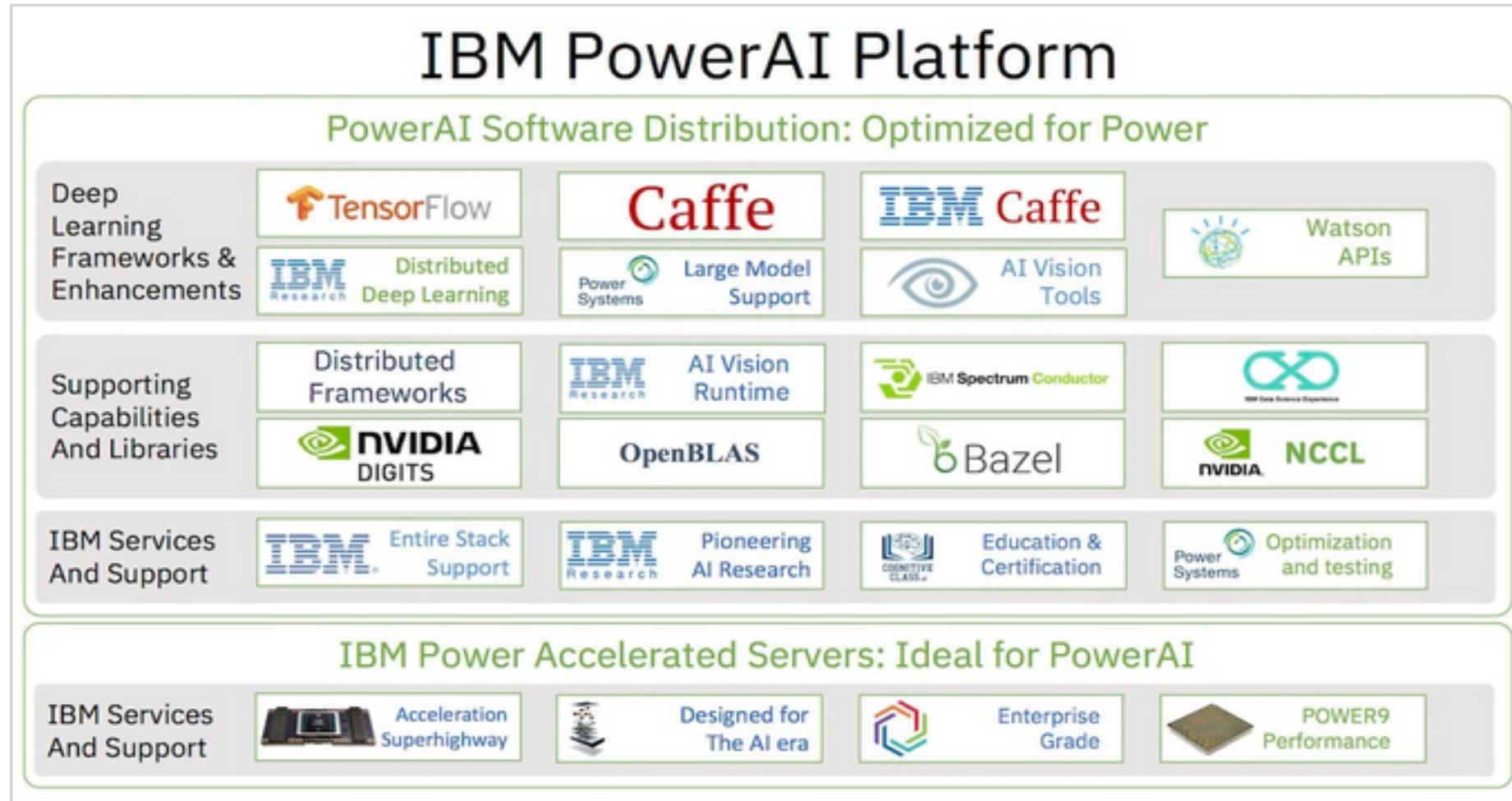
Caffe theano



Keras

- http://cs231n.stanford.edu/slides/2017/cs231n_2017_lecture8.pdf

IBM PowerAI Platform



<https://www.ibm.com/us-en/marketplace/deep-learning-platform>

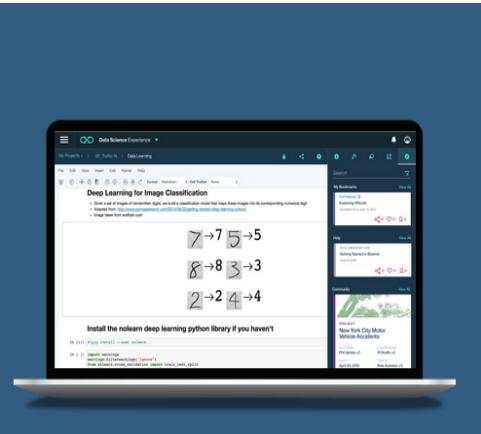
Watson Studio and PowerAI

IBM Data Science Experience

Analyze data using RStudio, Jupyter and Python in a configured, collaborative environment that includes IBM value-adds such as managed Spark

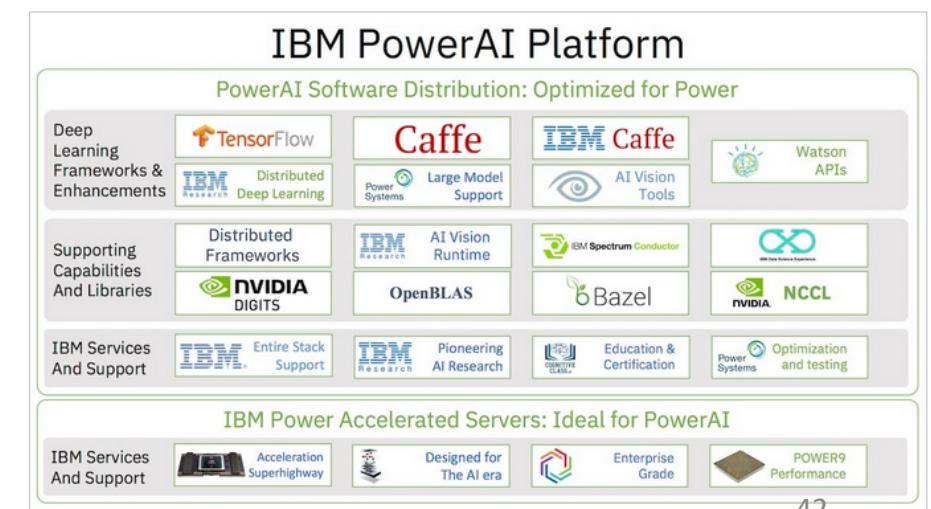
Contact Us

Try free edition



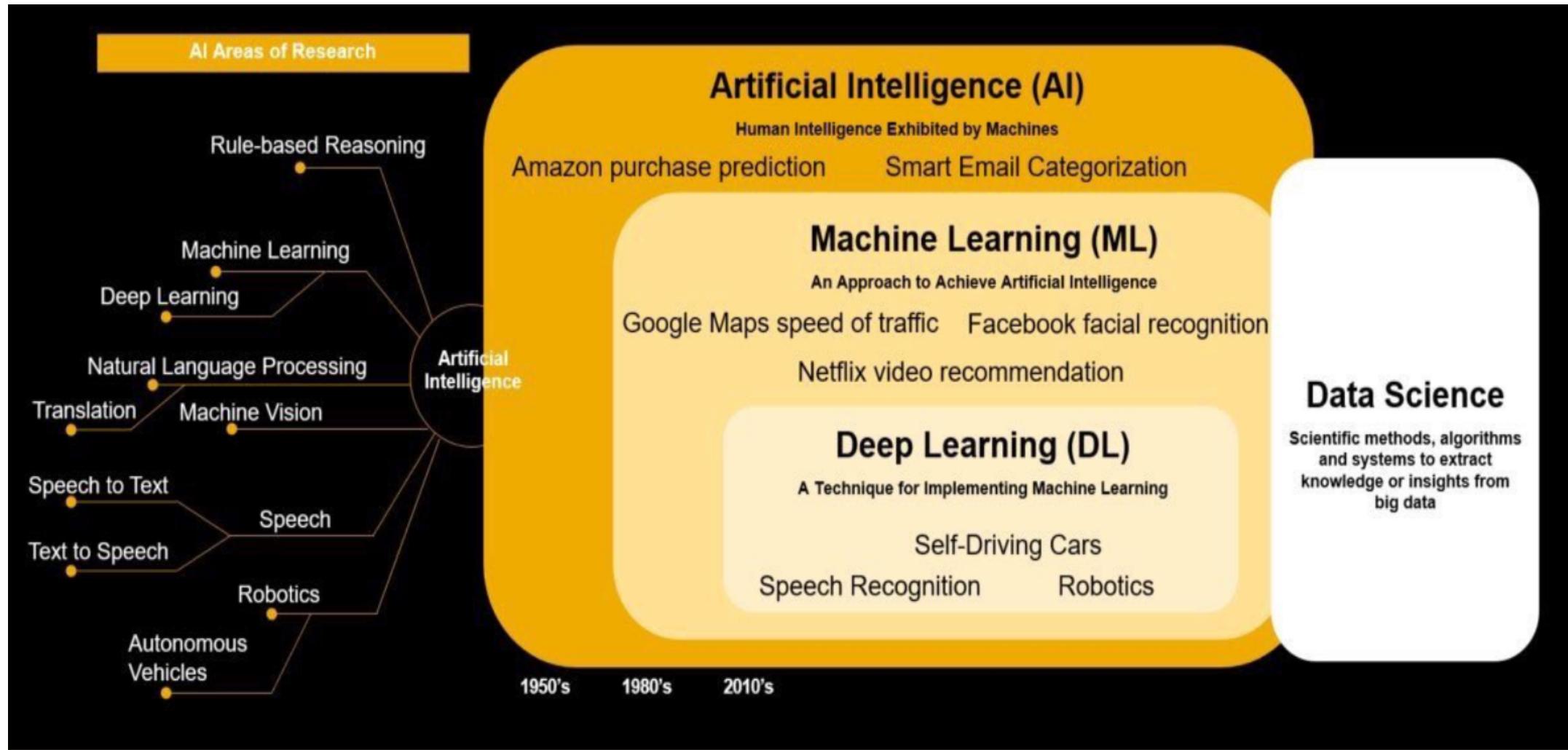
The Data Science Experience is an interactive and collaborative cloud-based environment designed to be **a place where data scientists can use such tools as RStudio, Jupyter, Python, Scala, Spark and IBM's Watson Machine Learning technology** to drive insights into their data and derive information useful to their businesses. It was rolled out last year first for the public cloud, and later was optimized for private clouds.

IBM is bringing the two together by integrating the PowerAI deep learning enterprise software distribution into the Data Science Experience.

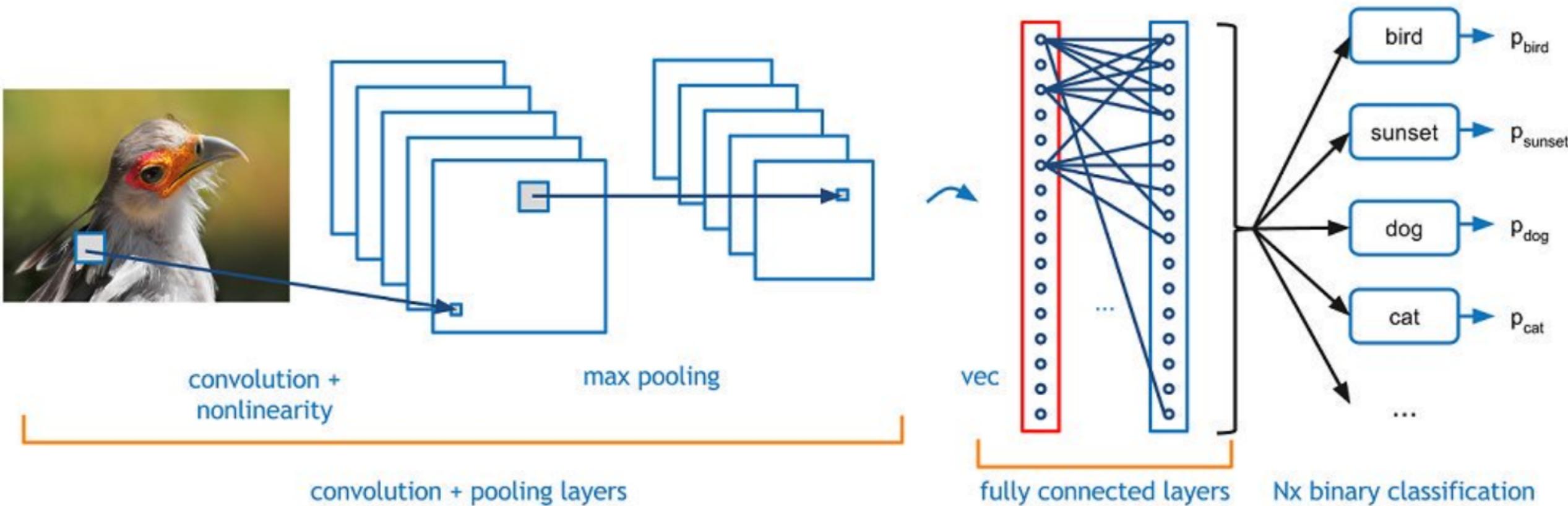


Machine Learning, the Software story

AI, Machine Learning, Deep Learning



Convolutional Neural Networks



- <https://dzone.com/articles/a-beginners-guide-to-understanding-convolutional-n>

IBM Code Patterns for AI and ML

Code Patterns

Technology ▾ Industry ▾ Deployment Models ▾ Sort by: Newest First ▾

CODE PATTERN | SEP 19, 2018
Ensure loan fairness
[Get the Code »](#)
Artificial Intelligence Data Science +

CODE PATTERN | SEP 19, 2018
Train an Anki Cozmo robot to recognize other toys
[Get the Code »](#)
Containers IBM Cloud +

CODE PATTERN | SEP 18, 2018
Blockchain for telecom roaming, fraud, and overage management
[Get the Code »](#)
Blockchain IoT

CODE PATTERN | SEP 14, 2018
Build a knowledge graph from documents
[Get the Code »](#)
Artificial Intelligence Data Science +

CODE PATTERN | SEP 12, 2018
Securing art using blockchain digital certificates
[Get the Code »](#)
Blockchain Hyperledger Composer +

CODE PATTERN | SEP 07, 2018
Image classification using convolutional neural networks
[Get the Code »](#)
Artificial Intelligence Deep Learning +

CODE PATTERN | SEP 06, 2018
Create a web-based chatbot with voice input and output
[Get the Code »](#)
Artificial Intelligence Python

CODE PATTERN | SEP 05, 2018
Using Istio across private and public clusters
[Get the Code »](#)
Containers IBM Cloud +

Items per page: 8 | 1-8 of 173 items 1 of 22 pages

Items per page: 8 | 1-8 of 173 items

1 of 22 pages

1

>

1

<https://developer.ibm.com/patterns/>

46

IBM Code Patterns for AI and ML

Code Patterns

Technology ▾ Industry ▾ Deployment Models ▾ Sort by: Newest First ▾

Machine Learning ×

CODE PATTERN | JUL 23, 2018
Predict wildfire intensity
Get the Code »
Artificial Intelligence Machine Learning

CODE PATTERN | JUL 13, 2018
Train and evaluate an audio classifier
Get the Code »
Artificial Intelligence Deep Learning +

CODE PATTERN | JUN 01, 2018
Analyze bank marketing data using XGBoost to gain insights into client purchases
Get the Code »
Artificial Intelligence Data Science +

CODE PATTERN | MAY 17, 2018
Determine target audience and run marketing campaigns
Get the Code »
Analytics Artificial Intelligence +

CODE PATTERN | AUG 22, 2017
Create and deploy a scoring model to predict heartrate failure
Get the Code »
Analytics Artificial Intelligence +

CODE PATTERN | MAY 15, 2017
Accelerate training of machine learning algorithms
Get the Code »
Analytics Artificial Intelligence +

<https://developer.ibm.com/patterns/category/machine-learning/>

Feedback

alf@us.ibm.com

Presentation:

<https://bit.ly/2NpeWt6>

Machine Learning and PowerAI Workshop

Agenda

6:00PM – Food, mingle

6:15PM – Kickoff by Scott Souter

Global Offering Manager – Deep Learning and AI @IBM

6:30PM – Intro to AI and ML at IBM

Lennart Frantzell – Developer Advocate @IBM

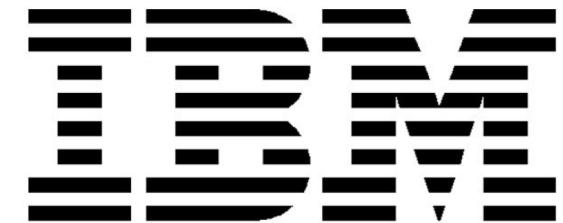
7:00PM – Introducing PointR Data

Saran Saund – CEO PointR Data

8:00PM – Rise of GPU Computing w/PowerAI +Demo

Justin McCoy – Developer Advocate @IBM

8:50PM – Wrap-up



SPEAKERS



Saran Saund
CEO PointR Data



Justin McCoy
IBM



Lennart Frantzell
IBM

