MACHINERY.AI
DEVELOPER CONFERENCE

November 2, 2017
Seattle, WA

Sponsored by:

Capital One®

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DIMENSIONAL MECHANICS

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8:00 am	Doors Open, Registation, Light Breakfast

9:00 am	Welcome Remarks

9:15 am

Deep Learning Demystified and Applied Deep Learning
with NVIDIA Deep Learning Institute   🐦 @nvidia

Join this lecture to understand the core concepts of deep learning and how to start a deep learning project. In this talk, you will learn the basics of neural networks, the components of a successful deep learning project, how to select a deep learning framework, and which NVIDIA deep learning software, hardware, and educational offerings are available to you. Pre-Requisites: This lecture is open to all non-technical and technical attendees.

10:00 am

Machine Thinking
with Ashish Bansal of Capital One   🐦 @CapitalOne

A lot of discussion and material is on the how of machine learning. This talk focusses on the why and what of machine learning. Ashish will present his experiences with deploying multiple ML apps in production, and talk about how to think and structure machine learning problems.

10:30 am

Image Classification with DIGITS
with NVIDIA Deep Learning Institute   🐦 @nvidia

Deep learning is giving machines near-human levels of visual recognition capabilities and disrupting many applications by replacing hand-coded software with predictive models learned directly from data. This hands-on lab introduces the machine learning workflow and provides hands-on experience with using deep neural networks (DNN) to solve a real-world image classification problem. You will walk through the process of data preparation, model definition, model training and troubleshooting, validation testing and strategies for improving model performance. You will also see the benefits of GPU acceleration in the model training process. On completion of this lab you will have the knowledge to use NVIDIA DIGITS to train a DNN on your own image classification dataset. Pre-Requisites: This hands-on lab is recommended for a technical audience i.e. developers, data scientists, engineers, and researchers.

12:00 pm Lunch

1:00 pm **Structure Data for Deep Learning**
with Rajeev Dutt of Dimensional Mechanics 🐦 @DMInc_AI

1:30 pm **Using Machine Learning to Build Conversations**
with Rachel Batish of Conversation.one 🐦 @rachelbatish

CONVERSATION.ONE is an omnichannel platform for building conversational solutions that leverages machine learning (ML) algorithm to constantly improve conversational dictionaries and build an enriched, fluent and natural correspondence using any device whilst maximizing the user's communication.The platform enables organizations to build and publish their Alexa Skills, Google Home Actions, FB messenger bots and intelligent assistants in one single process. CONVERSATION.ONE is based on a machine learning system, that is constantly building, enhancing and improving conversations between the end users and the different conversational devices and services by building a continuous feedback and learning cycle between businesses and end-users that grows independently based on market needs.

2:00 pm **Integrating Data Science into Legacy Products**
with Andrew Duchon of Manzama 🐦 @aduchon

Presentation on the experience of integrating data science into Manzama's legacy products to show value along the way to developing an entirely new product.

2:30 pm Break

🐦 **@machineryai** **#machineryai**

2:45 pm

Building A Machine Learning Business Case
with Neeti Gupta, Director, GE Healthcare 🐦 @neetig

Machine Learning is becoming more and more ubiquitous, especially as a solution for solving big data problems. Neeti Gupta, the Partner Marketing Director at Healthcare Digital in Seattle, will walk us through two important questions: 1. Is Machine Learning the best solution for the problem I am trying to solve? and 2. If so, how do I build a business case for it? And for those of you wanting to learn more about machine learning use cases, Neeti will also share with us some tips and resources to get you started.

3:00 pm

Panel: Ethical AI - Reducing Conscious and Unconscious Bias in Software
with Cheryl Ingram of Diverse City, Gideon Rosenblatt of The Vital Edge, Margie Henry of Textio, Tony Wilson of Capital One Investing, and Nicholas Stevens of Zillow
introduction by David Lewis, writer for Seattle Weekly and The Stranger

Artificial intelligence is already re-shaping our world. How do we ensure that we are programming it to create a bright future that is equitable for all? How do we know if we're accidentally perpetuating some of the same patterns of inequities that we see today? Can computers help us outsmart some our own biases? This panel will explore the exciting and timely frontier where AI and equity work intersect.

3:45 pm

Closing Keynote: Benefits and Risks of Artificial Intelligence
with Bhavani Rao of Capital One 🐦 @CapitalOne

4:30 pm

Meet at local bar for post event networking

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