Optimize Industrial Operations
with AI, Generative AI, and Machine Learning

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Abstract

Industrial operations create massive amounts of data that can be harnessed and optimized through artificial intelligence (**AI**). AI has the potential to drive efficiency and scale for industries via process, throughput, and quality improvements, among other benefits. In this discussion, learn how **Amazon** and **AWS** customers are leveraging purpose-built industrial AI services to accelerate the data-to-decision lifecycle. We will discuss use cases of AI and machine learning (ML) in the industrial sector, how AWS customers are applying the technology, and how to get started rapidly with AI services from AWS. We will also have an overview of latest AWS **Generative AI** technology. Learning Objectives include:
* Objective 1: Learn about how you can use AI and ML to solve common industrial challenges.
* Objective 2: Hear how AWS customers are leveraging purpose-built industrial AI services from AWS to accelerate the data-to-decision lifecycle.
* Objective 3: Learn about the latest development in Generative AI at AWS

Dianne Eldridge is an accomplished leader, specializing in the integration of AI and Machine Learning within the industrial sector. Since 2021, she has held the position of Worldwide Business Development Leader for Industrial AI/Generative AI at Amazon Web Services (**AWS**). In this role, she spearheads the inception, launch, and scaling of Industrial AI/GenAI services. Dianne is passionate about leveraging AI to facilitate industrial digital transformations. Adopting a customer-centric approach, her team tailors strategies by working backwards from client needs, then defining, building, and implementing effective go-to-market plans. This approach mirrors AWS's ethos, which pivots innovative concepts into global, multi-billion dollar enterprises. Before this post, Dianne spent 20 years with **Emerson**, a global engineering and manufacturing Fortune 200 company, as **Executive Director of Strategic Business Unit**. Dianne had the global responsibilities of a multi-hundred-million-dollar manufacturing portfolio in the US, China, and Italy. She was part of the **executive leadership team** of the complete Actuation business. Previously, Dianne also worked as leader of various functions in different world areas including *Application Engineering* in Canada, *Business Development* in Singapore, *Operations*, and *Global Product Management* in the US. Ms. Eldridge is a 2011 graduate of the **University of Texas at Austin MBA** program. She also holds two **bachelor's degrees** in **Biomedical Engineering** and **Commerce** from China and Canada.

This seminar counts towards the ME 600 seminar requirement
for Mechanical Engineering graduate students.

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