MID-AMERICA CLUB
ITCONNECT

DECEMBER 15, 2021 | **6:00PM** | **THE MID-AMERICA CLUB**
HOSTED BY ACM CHICAGO | CO-HOSTED BY POLYMORPHIC SYSTEMS, INC.

TOPIC:	**Reinforcement Learning with Ray RLlib**
SPEAKER:	**Dean Wampler** **Principal Software Engineer** **Domino Data Lab**
WHEN:	**December 15, 2021 – 6:00PM**
WHERE:	**Zoom Online Presentation** **RSVP** or call **312.861.1100**

Dean Wampler Dean Wampleris a Chicago-based expert in data engineering for scalable, streaming data systems and applications of machine learning and artificial intelligence (ML/AI). He is a Principal Software Engineer at Domino Data Lab. Previously, he worked at Anyscale, where he focused on scalable ML with Ray, and at Lightbend, where he developed distributed streaming data systems using Apache Spark, Apache Kafka, Kubernetes, and other tools.Dean is the author of *Programming Scala*, *What Is Ray? Distributed Computing Made Simple*, and *Fast Data Architectures for Streaming Applications*, among other titles from O'Reilly. Dean has a Ph.D. in Physics from the University of Washington.

Agent Training with RLlib

Reinforcement learning (RL) trains an agent to maximize a cumulative reward in an environment.

We will start with why RL is important, how it works, and several applications of RL. The presentation continues with how RL requires a variety of computational patterns: data processing, simulations, model training, model serving, etc.

Finally, Dean will discuss how RLlib, implemented with Ray, seamlessly and efficiently supports RL, providing an ideal platform for building Python-based, RL applications with an intuitive, flexible API. You will also learn how RLlib is one of the few frameworks that efficiently supports all these patterns at scale.

Join Us And Maximize Your Cumulative Rewards

Listen and learn as Dean Wampler explores the unique potential available with Ray RLlib and its applications in machine learning.

ABOUT DOMINO DATA LAB
Domino Data Lab is the Enterprise MLOps platform trusted by over 20% of the Fortune 100. Our products enable thousands of data scientists to develop better medicines, grow more productive crops, adapt risk models to major economic shifts, build better cars, improve customer support, or simply recommend the best purchase to make at the right time. At Domino, our mission is to unleash the power of data science to address the world's most important challenges.

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