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DM22-0412

Script: How to Deploy AI Systems with MLOps

SME(s): Hasan Yasar and Jay Palat

Moderator: Jay Palat

Interview Conducted: 03/21/2022 at 1:00 p.m. ET (Remote)

[PRE-Recorded Intro.]

Jay: Hi and welcome to the SEI Podcast Series. My name is Jay Palat, and I am the Interim Technical Director for AI for Mission in the SEI's Artificial Intelligence Division.

Today I am joined by Hasan Yasar, who is the director of Continuous Deployment of Capability at the SEI. Today we are going to discuss How to Deploy AI Systems with MLOps. Welcome, Hasan.

Hasan: Responds.

1. Hasan, we have both been guests on the podcast series before. Let's tell our guests a little bit about who we are and the work that we do here. Why don't you start.
2. You have been a frequent guest on this series talking about your work in DevSecOps. Let's use that to launch today's discussion. What is MLOps and how does it build on the principles introduced in DevSecOps?
3. In late January 2022 Devops.com reported that 90 percent of enterprises are either actively running AI projects or plan to in the next 12 months, according to a recent survey. Can we discuss some of the challenges that these organizations will face in deploying these

systems and how MLOps can help?

4. One challenging aspect of ML systems is that they are a collection of many systems. Practitioners need to apply DevSecOps to data pipelines, to application builds in addition to the MLOps specific work of building and deploying models. What are some leading practices that can help organizations who haven't been managing heterogeneous applications to deal with the rich diversity common in ML Shops?
5. What data considerations should organizations first address when deploying AI Systems with MLOps?
6. As of early March 2022, Github has 637 public repositories matching the topic of MLOps. Let's talk about what resources are available and how organizations trying to deploy AI systems via MLOps can access these resources. Where should they start? Is there any guidance out there?
7. Let's talk about next steps and where we see this our work in this area headed.

Jay: Thank you for talking with us today. We will include links in the transcript to resources mentioned during this podcast.

Finally, a reminder to our audience that our podcasts are available on Soundcloud, Stitcher, Apple Podcasts, and Google Podcasts as well as the SEI's YouTube Channel. If you like what you see and hear today, give us a thumbs up.

Thanks again for joining us.

<Canned Outro>