

ATTENDEE SPOTLIGHT

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TELL US A BIT ABOUT YOUR THOUGHTS ON EDGE ML HARDWARE & SOFTWARE INFRA CHALLENGES .

- Edge HW & SW stack has come a long way. Yet, the challenge of balancing algorithmic flexibility, accuracy & computational efficiency remains, especially in use cases where network constraints make it inevitable to run complex inference pipelines entirely or mostly on edge, involving a sequence of deep learning & computer vision models.
- The edge HW & SW stack has come to a point where we can run a complex inference service such as processing data captured by multiple high-resolution cameras and sensors on a Vimaan PickTrack system installed on a warehouse forklift detecting, analyzing, and reading everything on a pallet being picked by that forklift in near real-time, entirely on the edge.

WHAT ARE YOUR OBJECTIVES BEHIND ATTENDING THIS YEAR'S SUMMIT?

• To learn and interact with people. On one side, I would like to see how the industry is adopting edge HW & SW stack in a variety of use cases, and on the other hand, how companies building edge HW/SW are embracing complementary technology (and sometimes even competitive technologies) trying to make it easier to enable a superior edge system for customers like Vimaan.

HOW DO YOU SEE THE INDUSTRY CHANGING WITH THE INTRODUCTION OF GENERATIVE AI?

• Generative AI opens up a whole new set of capabilities that would ultimately empower business users and personal users alike. That also means exposure of personal and sensitive data at a level way beyond current smartphone apps, pushing the need for privacy and therefore the need for the assistants to run on the edge itself. On one side, we would see efforts from academia and industry AI researchers making generative AI models slimmer. On the other side, we would see edge HW/SW companies working hard to enable the building blocks necessary to optimize generative model architectures. Privacy would also force at least lightweight training or fine-tuning of generative AI models on edge devices themselves, yet the amount of generated data would blow up exponentially causing trade-offs at the edge-cloud continuum. We would see a mind shift towards solving such problems.

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