

Company name: **NVIDIA**

Speaker name: **Amit Bleiweiss**

Select a CATEGORY: Health IT/Digital

Select up to two SESSIONS per abstract from the list below

- **AI's Next Leap in HealthTech – From Buzzwords (Gen AI, Agentic, LLM and Foundation Models) to Real World examples**
Avi Veidman's session

You may delete the section instructions, leaving only the bolded bullet title
Answers below should not exceed 60 words per question:

Presentation Title: **Medicine Reimagined: Harnessing the Power of Digital and Physical AI**

AI is revolutionizing healthcare by seamlessly integrating digital and physical technologies to address critical industry challenges. Digital AI agents now provide round-the-clock, individualized healthcare services, significantly reducing the administrative burden on medical teams. Concurrently, the convergence of AI and biology offers unprecedented insights into biological processes, enabling the exploration of vast therapeutic possibilities. In the physical realm, AI-powered medical devices and robotics enhance precision in diagnostics and treatments while optimizing operational efficiency. Domain-specific computing platforms are fostering a more responsive and patient-centric healthcare ecosystem. These advancements collectively promise to improve health outcomes on a global scale, marking a transformative chapter in medical history.

This talk explores the latest advancements in healthcare AI, highlighting how NVIDIA's integrated software and hardware platforms are reshaping the future of the industry. NVIDIA Clara, a comprehensive suite of AI applications and accelerated frameworks, empowers healthcare developers, researchers, and medical device makers to create next-generation solutions for medical imaging, genomics, drug discovery, and smart hospitals. The Clara Holoscan platform, combining powerful edge computing with real-time AI processing, enables seamless integration of streaming sensor data for applications ranging from radiology and ultrasound to robotic surgery and patient monitoring. NVIDIA's cloud-based APIs, including the MONAI framework and VISTA-3D foundation model, accelerate the development and deployment of specialized AI models for medical imaging, supporting rapid segmentation, annotation, and clinical decision support. Through real-world examples, this session will showcase how digital and physical AI, built on NVIDIA's ecosystem, are bridging gaps in care, reducing diagnostic disparities, and accelerating the delivery of life-saving innovations across the globe