

Nuance and NVIDIA to Advance AI for Radiology

Nuance AI Marketplace for Diagnostic Imaging Harnesses NVIDIA's Deep Learning Platform to Develop and Deploy Medical Imaging Applications

BURLINGTON, Mass., and Santa Clara, Calif., November 27, 2017 – [Nuance Communications, Inc.](#) (NASDAQ: NUAN) and [NVIDIA](#) (NASDAQ: NVDA) today announced that they are working together to bring the power of machine learning to radiologists and data scientists working across the entire healthcare system.

Unveiled today at the Radiological Society of North America conference (RSNA) in Chicago, [the Nuance AI Marketplace for Diagnostic Imaging](#) combines the power of NVIDIA's deep learning platform with Nuance's PowerScribe radiology reporting and PowerShare image exchange network, used by 70 percent of all radiologists in the United States. This combination creates a unique end-to-end methodology that enables widespread development and rapid deployment of imaging AI models into the existing workflow of thousands of radiologists, helping them quickly detect key clinical findings and improve patient care.

"We stand on the edge of a new age in radiology, where artificial intelligence and machine learning will become a necessity in every radiologist's essential toolkit," said Dr. Luciano Prevedello, Division Chief of Medical Imaging Informatics at The Ohio State University Wexner Medical Center. "It is critical for the state of AI adoption and its potential to improve patient outcomes and operations that AI-based tools are more than just available – they must be valuable, validated and valued by the institution of radiology."

With the AI Marketplace, Nuance is the first company that will bring together an ecosystem of researchers, developers, medical associations, hospitals and health IT companies, revolutionizing medical imaging with AI. The Marketplace will become a hub for thousands of medical-imaging AI applications that help radiologists interpret images, auto-populate reports and focus on the most important cases. It will create a ready market for researchers and developers, while making it easy for radiology departments to seamlessly integrate multiple AI applications seamlessly into their existing workflow.

"Transforming the delivery of patient care and combating disease starts with the most advanced technologies being readily available when and where it counts – in every reading room, across the United States," said Peter Durlach, senior vice president, Healthcare at Nuance. "Our AI Marketplace will bring together the leading technical, research and healthcare minds to create a collection of image processing algorithms that, when made accessible to the wide array of radiologists who use our solutions daily, has the power to exponentially impact outcomes and further drive the value of radiologists to the broader care team."

"Medical imaging is an essential tool for delivering the best healthcare, and now we have the opportunity to massively enhance it with AI," said Kimberly Powell, vice president of Healthcare at NVIDIA. "By working closely with Nuance, we are connecting the world's AI developers to scalable and seamless deployment of AI applications for radiology."

NVIDIA's deep learning platform will power the training and publishing of applications to the Nuance AI Marketplace, as well as the deployment in the medical imaging workflow. NVIDIA's DIGITS developer tool has a new feature to directly publish to the AI Marketplace, while NVIDIA's TensorRT will provide low-latency, high-throughput inference for medical imaging. NVIDIA's AI computing platform is available everywhere, which gives the AI Marketplace maximum flexibility, allowing hospitals to keep their data securely on premises to ensure strict confidentiality, or to take advantage of AI computing in the cloud.

Deep learning capabilities from NVIDIA augment intelligence and allow for faster, more accurate analysis and diagnosis. For example, NVIDIA's deep learning platform can ingest and learn from normal and abnormal chest X-ray data and create an algorithm to detect and identify which images display pneumonia. Nuance can then integrate the images into different worklists, alerting radiologists to cases that should be prioritized.

Nuance and NVIDIA will show a live demo of the Nuance AI Marketplace for Diagnostic Imaging powered by NVIDIA at the RSNA conference. Nuance will be in South Hall A, Booth 2700, and NVIDIA will be in North Hall 3, Booth 8543.

About Nuance Communications, Inc.

Nuance Communications, Inc. (NASDAQ: NUAN) is a leading provider of voice and language solutions for businesses and consumers around the world. Its technologies, applications and services make the user experience more compelling by transforming the way people interact with devices and systems. Every day, millions of users and thousands of businesses experience Nuance's proven applications. For more information, please visit www.nuance.com.

About NVIDIA

NVIDIA's (NASDAQ: NVDA) invention of the GPU in 1999 sparked the growth of the PC gaming market, redefined modern computer graphics and revolutionized parallel computing. More recently, GPU deep learning ignited modern AI -- the next era of computing -- with the GPU acting as the brain of computers, robots and self-driving cars that can perceive and understand the world. More information at <http://nvidianews.nvidia.com/>.

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