GE and NVIDIA Join Forces to Accelerate Artificial Intelligence Adoption in Healthcare

- New generation of intelligent medical devices will use world's most advanced AI platform with the goal of improving patient care
- GE Healthcare is the first medical device company to use the NVIDIA GPU Cloud
- New Revolution Frontier CT, powered by NVIDIA, is two times faster for image processing, proving performance acceleration has begun

GE Healthcare and NVIDIA today announced they will deepen their 10-year partnership to bring the most sophisticated artificial intelligence (AI) to GE Healthcare's 500,000 imaging devices globally and accelerate the speed at which healthcare data can be processed.

The scope of the partnership, detailed today at the 103rd annual meeting of the Radiological Society of North America (RSNA), includes the announcement of the new NVIDIA-powered Revolution Frontier CT, advancements to the Vivid E95 4D Ultrasound and development of GE Healthcare's Applied Intelligence analytics platform.

The new CT system in the Revolution Family is two times faster in imaging processing than its predecessor, due to its use of NVIDIA's AI computing platform. The Revolution Frontier is FDA cleared and expected to deliver better clinical outcomes in liver lesion detection and kidney lesion characterization because of its speed - potentially reducing the need for unnecessary follow-ups, benefitting patients with compromised renal function and reducing non-interpretable scans with Gemstone Spectral Imaging Metal Artefact Reduction (GSI MAR).

"Our partnership with GE Healthcare brings together great expertise in medical instruments and AI to create a new generation of intelligent instruments that can dramatically improve patient care,'' said Jensen Huang, founder and CEO of NVIDIA.

NVIDIA, which has helped pioneer the spread of AI across a growing range of fields, including self-driving cars, robotics and video analytics, is working with GE Healthcare to spread its application in healthcare. GPU-accelerated deep learning solutions can be used to design more sophisticated neural networks for healthcare and medical applications--from real-time medical condition assessment to point-of-care interventions to predictive analytics for clinical decision-making. For patients, the partnership aims to drive lower radiation doses, faster exam times and higher quality medical imaging.

GE Healthcare and NVIDIA also announced the following at RSNA today:

- NVIDIA Platform Powers 4D Ultrasound Visualization: The Vivid E95 4D Ultrasound System, on display at RSNA, uses NVIDIA GPUs to provide fast, accurate visualization and quantification while streamlining workflows across the cSound^{TM} imaging platform. NVIDIA GPUs accelerate reconstruction and visualization of blood flow and improve 2D and 4D imaging for Echo Lab and Interventional deployments.
- New GE Healthcare Applied Intelligence Powered by NVIDIA Technology: Modules of the new analytics platform will use NVIDIA GPUs, the NVIDIA® CUDA® parallel computing platform and the NVIDIA GPU Cloud container registry to accelerate the creation, deployment and consumption of deep learning algorithms in new healthcare analytic applications that will be seamlessly integrated into clinical and operational workflows and equipment.

"Healthcare is changing at remarkable speed, and the technologies that will transform the industry should reflect that pace,'' said Kieran Murphy, President and CEO of GE Healthcare. "By partnering with NVIDIA, GE Healthcare will be able to deliver devices of the future - intelligent machines capable of empowering providers to improve the speed and accuracy of diagnoses for patients around the world.''

The average hospital generates 50 petabytes of data annually, through medical images, clinical charts and sensors, as well as operational and financial sources. Yet, less than 3 percent of that data is actionable, tagged or analyzed. GE Healthcare and NVIDIA will harness more of this data by combining powerful applications built with lighthouse customers, best-in-class medical devices and the fast processing speeds of GPUs - all to make AI a reality in healthcare.

The full GE Healthcare RSNA 2017 press kit can be found here.

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/.

About GE Healthcare

Harnessing data and analytics across hardware, software and biotech, GE Healthcare is the $18 billion healthcare business of GE (NYSE: GE). As a leading provider of medical imaging equipment, with a track record of more than 100 years in the industry and more than 50,000 employees across 100 countries, we transform healthcare by delivering better outcomes for providers and patients. Follow us on Facebook, LinkedIn, and Twitter or The Pulse for latest news.

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