



NVIDIA, Massachusetts General Hospital Use Artificial Intelligence to Advance Radiology, Pathology, Genomics

GPU Technology Conference 2016 -- NVIDIA today announced that it is a founding technology partner of the MGH Clinical Data Science Center, which aims to advance healthcare by applying the latest artificial intelligence techniques to improve the detection, diagnosis, treatment and management of diseases.

Massachusetts General Hospital -- which conducts the largest hospital-based research program in the United States, and is the top-ranked hospital on this year's *US News and World Report* "Best Hospitals" list -- recently established the MGH Clinical Data Science Center in Boston. The center will train a deep neural network using Mass General's vast stores of phenotypic, genetics and imaging data. The hospital has a database containing some 10 billion medical images.

To process this massive amount of data, the center will deploy the [NVIDIA® DGX-1™](#) -- a server designed for AI applications, launched earlier today at the GPU Technology Conference -- and deep learning algorithms created by NVIDIA engineers and Mass General data scientists.

"Deep learning is revolutionizing a wide range of scientific fields," said Jen-Hsun Huang, CEO and co-founder, NVIDIA. "There could be no more important application of this new capability than improving patient care. This work will one day benefit millions of people by extending the capabilities of physicians with an incredibly powerful new tool."

Using AI, physicians can compare a patient's symptoms, tests and history with insight from a vast population of other patients. Initially, the MGH Clinical Data Science Center will focus on the fields of radiology and pathology -- which are particularly rich in images and data -- and then expand into genomics and electronic health records.

"We now have the ability to expand the field of radiology beyond its predominant state of providing visualization for human interpretation," said Dr. Keith J. Dreyer, vice chairman of Radiology at Mass General, associate professor of radiology at Harvard Medical School and executive director of the center. "Guided by precision healthcare, we are entering the radiological era of biometric quantification, where our interpretations will be enhanced by algorithms learned from the diagnostic data of vast patient populations. Without the processing capabilities of GPUs, this would not be possible."

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Certain statements in this press release including, but not limited to, statements as to: the importance of AI; and the benefits of the NVIDIA DGX-1 server and deep learning algorithms are forward-looking statements that are subject to risks and uncertainties that could cause results to be materially different than expectations. Important factors that could cause actual results to differ materially include: global economic conditions; our reliance on third parties to manufacture, assemble, package and test our products; the impact of technological development and competition; development of new products and technologies or enhancements to our existing product and technologies; market acceptance of our products or our partners' products; design, manufacturing or software defects; changes in consumer preferences or demands; changes in industry standards and interfaces; unexpected loss of performance of our products or technologies when integrated into systems; as well as other factors detailed from time to time in the reports NVIDIA files with the Securities and Exchange Commission, or SEC, including its Form 10-K for the fiscal year ended January 31, 2016. Copies of reports filed with the SEC are posted on the company's website and are available from NVIDIA without charge. These forward-looking statements are not guarantees of future performance and speak only as of the date hereof, and, except as required by law, NVIDIA disclaims any obligation to update these forward-looking statements to reflect future events or circumstances.

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