AWS for a Health Partner: NVIDIA
Leverage the power of deep learning and improved image processing

Challenges in medical imaging workloads

- **Exponential data growth**: Medical centers produce 90% of imaging data per year. 80% of that data goes unused or unanalyzed.
- **More studies need to be read than before**: With advances in medical imaging instruments, scanners can tell more about a patient’s health without the need for invasive procedures.
- **High demand for radiologists**: More studies need to be read as well as increase error rates.
- **Limited number of radiologists**: The limited number of radiologists, multiplied by growing requirements for regulatory compliance and reporting can delay the process. Researchers and scientists to collaborate effectively.
- **Exponential data growth**: Medical centers produce over 50 petabytes of imaging data per year.
- **Large files and processing medical imaging data requires high-performance computing and AI**: Medical centers produce over 50 petabytes of imaging data per year.
- **Storing large files and processing medical imaging data requires high-performance computing and AI**: Medical centers produce over 50 petabytes of imaging data per year.
- **Collaboration and experimentation restraint**: Collaboration and experimentation restraint.
- **High-performance computing and AI**: High-performance computing and AI.

Types of medical imaging AI modules created using NVIDIA Clara, a deep-learning and improved image-processing framework

- **Image enhancement**: Real-time image enhancement, allowing for superior image quality production and unlimited AWS compute and storage.
- **Image reconstruction**: Fast image reconstruction, while reducing time spent in MRI scans.
- **Automatic volumetric measurements**: AI models can bring AI workflows to radiologists and reduce time spent performing them.
- **Automatic reporting**: AI models can help accurately compare medical imaging readings of studies as well as increase error rates.
- **Faster AI model creation**: AI models are addressing many of the challenges faced by health organizations today.
- **Optimized workflows**: AI in healthcare 2020 leadership survey report: 7 key findings.
- **Improved outcomes**: Research seen by Health organizations using Clara Imaging on AWS.
- **AI workflow automation**: Results seen by Health organizations using Clara Imaging on AWS.

Variety cloud-based computer and storage

- **Clara Imaging leverages AWS’ scalable and cost-effective compute and storage capacity to accelerate medical imaging workflow**.

Hardware and software

- **Clara Imaging and Open Network for Medical Imaging (ONMI)**: Clara Imaging is driven by open-source PyTorch-based MONAI (Medical Open Source Infrastructure) and by NVIDIA Clara Imaging SDK.

Collaboration and experimentation

- **Leverage the power of deep learning and improved image processing with Clara Imaging and Clara Imaging SDK Pipelines’ secure scientific collaboration and experimentation.**

Results seen by Health organizations using Clara Imaging on AWS

- **50% less medical imaging time spent using AWS reference models**.

Stay ahead of data science learn more about Clara for Medical Imaging

Learn about Clara Imaging on AWS

Learn more about AWS for Medical Imaging

Get started today