GENE GENIE
FOR LIFE SCIENCE AND PRECISION MEDICINE

Gene Genie is an end-to-end ecosystem for Artificial Intelligence (AI) advancement in the healthcare industry. It combines leading GPU accelerator technology and intuitive scale out storage in one platform for the analysis of Next Generation Sequencing (NGS) and medical image data. We have integrated and optimised widely used genomics pipelines and Medical Image Computing (MIC) applications into one easy to use environment for secondary and tertiary analysis.

KEY FEATURES

- Ingest data from hundreds of medical instruments simultaneously.

- Accelerate genomics and medical imaging pipelines using highly parallel GPU architecture.

- Create and run powerful machine learning and deep learning algorithms for healthcare analysis.

- Harness the power of AI automation to advance your time to results while reducing your total cost of discovery (TCD).

ACCELERATE. STORE. ANALYSE. DISCOVER

Up to **30x faster** secondary analysis of genomics and MIC workflows.

GET IN TOUCH

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30x ACCELERATE

Up to 30x faster secondary analysis of genomics and MIC workfl ows. Gene Genie will reduce the time and cost of genomics and medical imaging analysis by transforming monolithic CPU based pipelines to run on the highly parallel architecture of GPUs.

The platform is optimised to process huge samples sets, such as population health research, that require an agile compute environment with supreme throughput speed and high precision.

ANALYSE

Gene Genie is an incubator for AI research. We created a purpose-built Machine Learning (ML) and Deep Learning (DL) environment to run your powerful genomics and medical imaging algorithms through a single management interface. Your researchers can effortlessly spin up ML and DL instances, preconfigured with your preferred frameworks within a matter of minutes. We have already imported commonly used deep learning frameworks, such as TensorFlow, Theano, and Caffe, to kickstart your research success.

STORE

Support hundreds of instruments simultaneously. Gene Genie meets your demanding data storage needs with a fast, scalable and highly redundant data repository. As processing your data moves to the IO-intensive phases, our parallel file access slashes the duration of long-running tasks to achieve a much higher overall throughput. Gene Genie has full multi-tenancy support and provides complete per-tenant isolation, giving your administrators total control over where your data resides.

DISCOVER

Gene Genie speeds up the complete process from data collection to discovery, while reducing your total cost, by tapping into the potential of a seamlessly integrated compute and storage platform.

Remove all your administrative and technical burdens with our user centric, end-to-end solution on a single interface.commonly used deep learning frameworks, such as TensorFlow, Theano, and Caffe, to kickstart your research success.

THE GENE GENIE SOLUTION CAN BE INSTALLED IN A NUMBER OF DIFFERENT CONFIGURATIONS TO SUIT YOUR WORKLOAD, REQUIREMENTS AND BUDGET.

ON PREMISE
Delivered and installed on premise in your DC/facility

MANAGED SERVICE
Deployed in our DC with dedicated, secure connectivity into your facility

PUBLIC CLOUD
Gene Genie powered by vScaler public cloud

HYBRID CLOUD
An on premise solution with the ability to burst into our public facility

We do not use any commercial third party providers such as AWS, Google, Azure etc. meaning your entire infrastructure is built and managed under a single SLA with no lock-in – consider our DC's as an extension of yours.

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