

Voyager AI Supercomputer Enables New Explorations

The San Diego Supercomputer Center (SDSC) hosts one of the largest academic data centers in the world and is recognized as an international leader in data use, management, storage, and preservation. Computational science and engineering are entering a new era where AI is becoming essential to advancing discoveries across every field of research. SDSC was awarded a National Science Foundation grant to build a unique, AI focused supercomputer. Voyager is built with Supermicro servers using 3rd and 2nd Generation Intel® Xeon® Scalable processors and Habana Labs Gaudi® training and Goya inference AI processors. The new system will allow researchers to migrate their existing machine learning and inference projects to Voyager, plus design, develop, and optimize new algorithms.

“AI is becoming a discipline itself. Unlike general purpose computing, tools and technologies focused on deep learning are different. This is hardware specially built for AI—Gaudi for training and Goya for inference. We need this hardware to experiment, test, and learn in order to advance AI approaches.”

**Amit Majumdar, Director
of the Data Enabled
Scientific Computing
(DESC) Division, SDSC**

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