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Inception Spotlight: AI Startup Neurala Sees 7X Speedup with NGC

Sep 25, 2019

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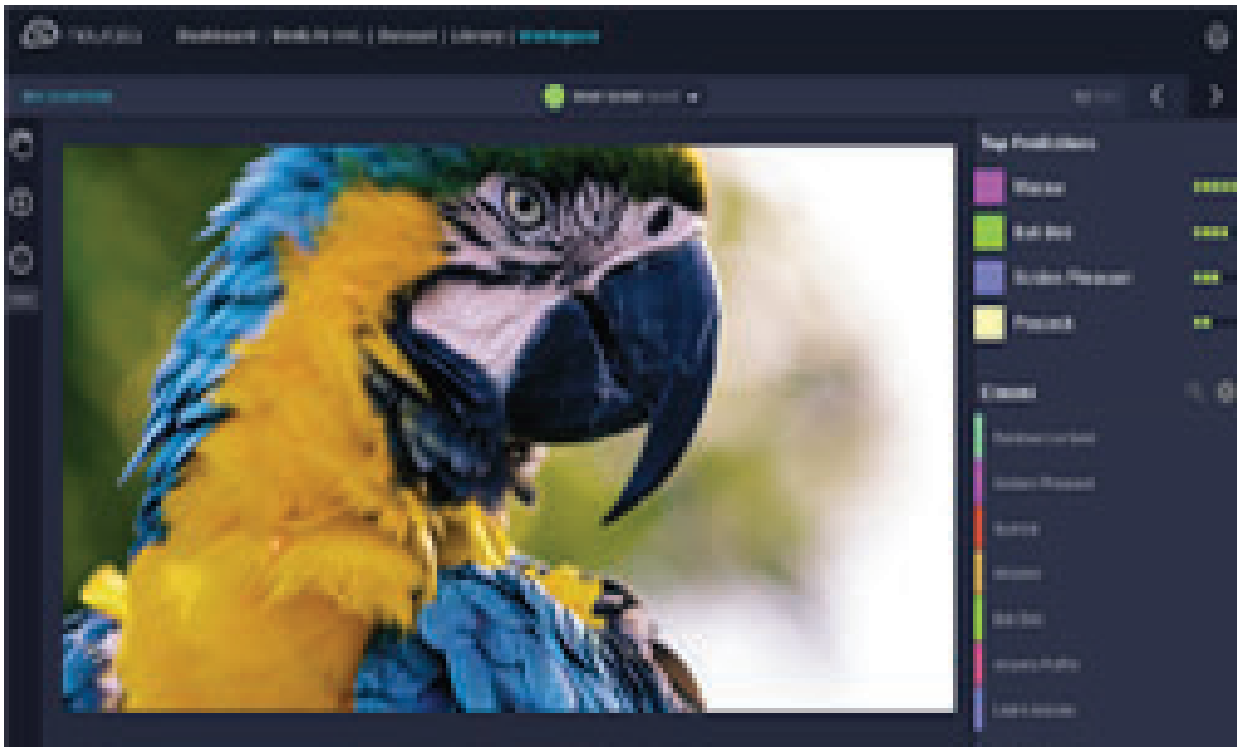
By Nefi Alarcon



To help businesses develop custom computer vision solutions quickly, Neurala, a member of NVIDIA's start-up incubator Inception, has developed Brain Builder, a cloud platform that

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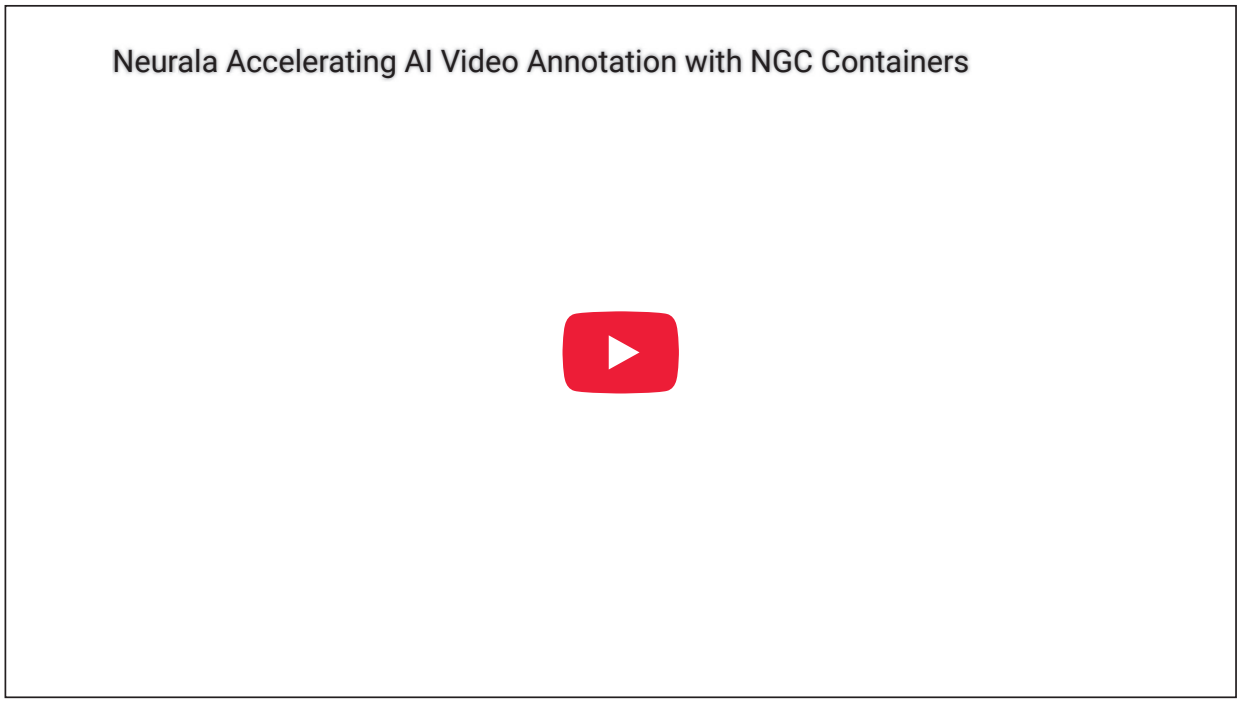
"Neural is an an end-to-end SaaS platform to streamline the creation of custom vision AI solutions," the company wrote in a blog post. "By giving organizations an all-in-one tool for data tagging, training, deployment, and analysis, Brain Builder makes custom vision AI creation more efficient and accessible for AI beginners and experts alike," they stated.

In the video below, the Neurala team describes how they improved performance in their workflow by using containers from NGC, NVIDIA's hub for GPU-accelerated software.



NGC enabled the team to move from TensorFlow to a container version of TensorFlow on NGC with TensorRT integration, running on NVIDIA V100 GPUs for both training and inference, as well as testing other deep learning frameworks.

Before NGC, the company's training and inference times were simply too slow to provide value for their users. This shift to using containers on NGC resulted in a 7x speedup, the company said.

"To increase reliability, we now develop and test our networks on multiple frameworks," Neves said. "In the past, that would have required a complicated and time-consuming installation. All the plumbing work required to develop Brain Builder would have hampered the delivery dates. Thanks to NGC, we were able to focus on building and delivering the solution on time."

With Brain Builder running in NGC containers on NVIDIA GPUs, Neurala users can complete their work and build custom AI solutions significantly faster than would otherwise be possible, Neves explained.

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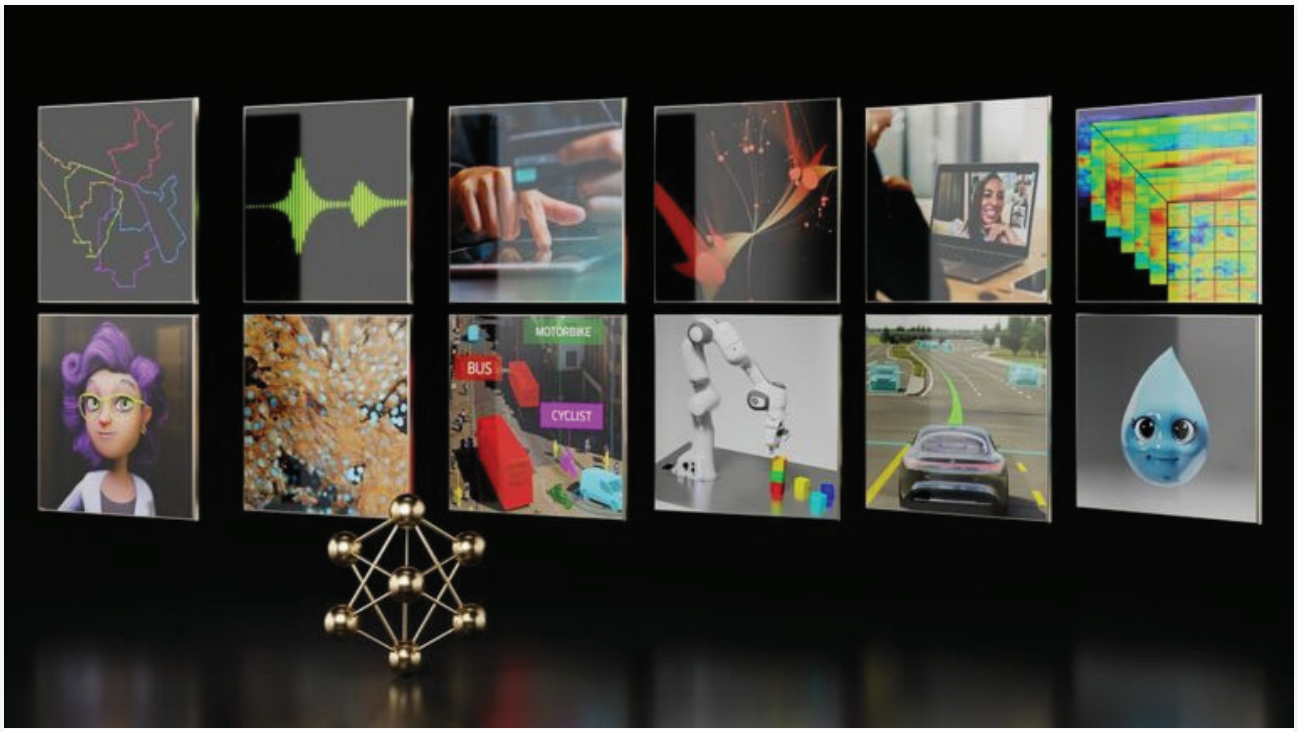

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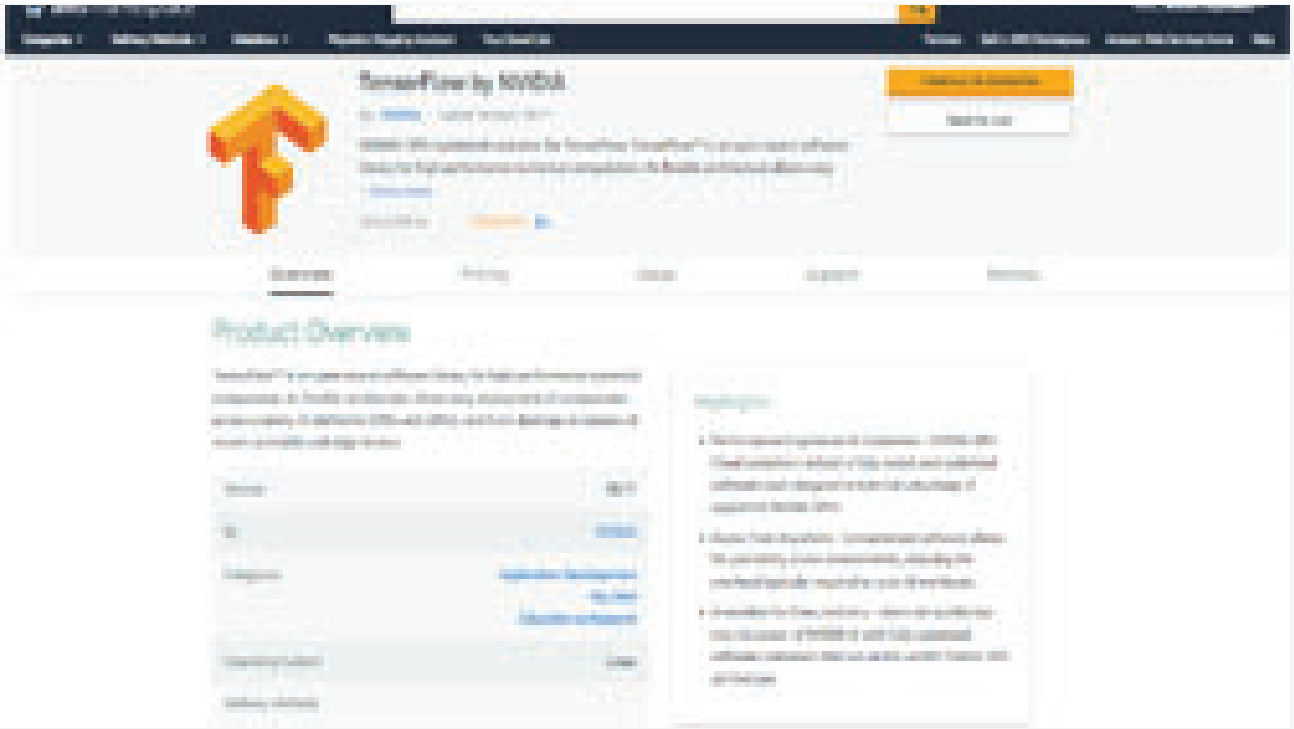

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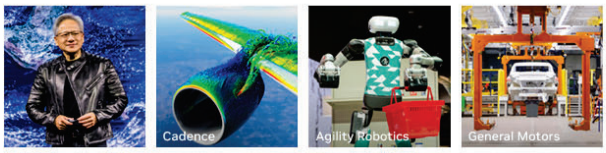

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