NXP Collaborates with NVIDIA to Accelerate AI Deployment with Integration of TAO Toolkit with NXP Edge Devices

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- *NXP is the first semiconductor vendor to integrate NVIDIA TAO Toolkit APIs directly with its AI enablement offering, the eIQ machine learning development environment*
- *Enables NVIDIA's trained AI models to be deployed on NXP's edge processing devices*
- *Accelerates AI development by making it easier to deploy trained AI models at the edge*

EINDHOVEN, The Netherlands, March 18, 2024 (GLOBE NEWSWIRE) -- At NVIDIA GTC, NXP Semiconductors N.V. (NASDAQ: NXPI) today announced a collaboration with NVIDIA that enables NVIDIA's trained AI models to be deployed on NXP's broad portfolio of edge processing devices through the eIQ® machine learning development environment. This exciting enablement offers developers the ability to accelerate development in the increasingly competitive world of AI, made possible by the functional integration of the NVIDIA TAO Toolkit into the NXP's eIQ machine learning development environment. NXP is the first semiconductor vendor to integrate the NVIDIA TAO APIs directly within an AI enablement offering to make it easier for developers to deploy trained AI models at the edge.

Simplifying the training and deployment of AI models is one of the biggest challenges facing today's AI developers. To address this challenge, NXP collaborated with NVIDIA to integrate the NVIDIA TAO APIs directly within NXP's eIQ machine learning development environment. The NVIDIA TAO low-code AI framework makes it easier to leverage trained AI models and fine tune them for specific uses with transfer learning, while NXP's eIQ development environment eases the deployment of these models to the edge through a combination of software, inference engines, neural network compilers and optimized libraries. As a result of this integration, customers benefit from accelerated AI development, access to a library of pre-tested AI models, and the ability to deploy them on NXP's wide portfolio of edge processors.

"AI innovation will define the future of the smart connected world," said Charles Dachs, Senior Vice President and General Manager, Industrial and IoT Edge, NXP. "Combining NVIDIA's expertise in training and testing AI models with NXP's long history of industrial and IoT edge innovation creates a synergy that allows our customers to bring their AI models to market quickly and easily."

"NVIDIA TAO greatly simplifies the creation and deployment of AI models, including state-of-the-art generative AI models," said Deepu Talla, Vice President of Robotics and Edge Computing at NVIDIA. "This collaboration brings highly accurate, optimized AI models tuned with NVIDIA TAO and plugged seamlessly into NXP's eIQ development environment to accelerate edge AI deployments."

The NXP eIQ machine learning software development environment enables the use of AI algorithms on NXP's broad portfolio of microcontrollers and microprocessors. It is fully integrated into NXP's MCUXpresso SDK and Yocto Project Linux development environments, allowing developers to develop complete system-level applications with ease.

The eIQ machine learning development environment will directly integrate NVIDIA TAO APIs, delivering a single platform for model AI training, optimization and deployment. NVIDIA TAO provides an API-driven workflow that leverages a collection of pre-trained models and transfer learning to enable users to build custom AI models. NVIDIA TAO provides several optimizations, such as model pruning, that increase the inference throughput.

For more information on how this collaboration can speed development and allow NVIDIA's pre-trained models to run on the NPU (Neural Processing Unit) in NXP SoCs such as the i.MX 93 applications processor, visit nxp.com/eIQ

About NXP Semiconductors
NXP Semiconductors N.V. (NASDAQ: NXPI) brings together bright minds to create breakthrough technologies that make the connected world better, safer and more secure. As a world leader in secure connectivity solutions for embedded applications, NXP is pushing boundaries in the automotive, industrial & IoT, mobile, and communication infrastructure markets while delivering solutions that advance a more sustainable future. Built on more than 60 years of combined experience and expertise, the company has approximately 34,200 team members in more than 30 countries and posted revenue of $13.28 billion in 2023. Find out more at www.nxp.com.

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A photo accompanying this announcement is available at https://www.globenewswire.com/NewsRoom/AttachmentNg/12dc07ae-7236-4ae8-

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Source: NXP USA, Inc.