



# Payment Services Leader Unlocks Innovation and Scalability with Cisco Secure AI Factory with NVIDIA

Digital payment systems are rapidly transforming commerce worldwide, and India is at the forefront of these changes. Each day, more than 600 million transactions are processed on mobile devices in India, using a leading instant payment system and protocol. This payment interface facilitates inter-bank peer to peer (P2P) and person-to-merchant (P2M) transactions, and its popularity is soaring.

To keep pace with massive user growth and accelerate innovation, the developer of the payment interface needed a more scalable, AI-enabled IT architecture. A longtime, proven innovator, the organization maintains an in-house data analytics platform that it was seeking to enhance with AI, so it could better manage and resolve business and consumer issues, and support other use cases. The organization needed a proven, validated solution that delivered the performance it needed, while providing a path for growth in the near future.

### Bringing together Cisco and NVIDIA strengths

The payment services company had been a Cisco customer for years and was very comfortable with Cisco's data center solutions. Because of that, its team chose the Cisco Secure AI Factory with NVIDIA. This modular reference design combines high-performance AI infrastructure with full-stack security and observability. Cisco and NVIDIA worked closely together to lead a series of knowledge workshops to help the organization lay the groundwork for developing its small language model (SLM) and other resources to support its AI use cases.

The first phase of deployment focused on compute. Together, Cisco and NVIDIA discussed the ease of onboarding onto their fully validated enterprise reference architecture, featuring Cisco UCS C240 servers with NVIDIA accelerated computing. These proven designs, together with professional services from Cisco and its partners, enable the company to accelerate the development and delivery of AI workloads. A modular, scalable approach lets the payment services firm prepare to support a predicted 300 percent increase in users.

### Extending networking and security capabilities

The next phase of the deployment will focus on enhancing networking, with Cisco Nexus 9000 Series switches providing high-density 800G connectivity and optimized power and cooling efficiency. This enhanced networking performance will also enable the payment provider to support additional training and inferencing clusters as its AI initiatives develop.

Cybersecurity and compliance are another top priority for this financial services leader. Another future deployment phase will focus on implementing AI security best practices to protect the organization's sensitive data and ensuring trustworthy AI systems. Cisco is currently working in close consultation with the organization to provide proof of value in terms of how they can onboard the Cisco security.

With Cisco Secure AI Factory with NVIDIA in place, the payment services company is confident in its ability to keep pace with future growth, while delivering a consistently superior experience to the users and businesses it serves across the globe.

**“Secure AI Factory with NVIDIA lets the organization onboard a fully validated reference architecture, incorporating accelerated Cisco Ethernet networking, while also building on the security stack.”**

Cisco Account Executive