

Java as a Major Platform for Production AI

JCP Executive Committee Position Paper 2026-2028
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Our Vision

We believe Java should become a major platform for building and running AI in production, particularly as AI becomes an integral part of enterprise applications. Java already powers critical business systems across financial services, telecommunications, government, e-commerce and other industries. As AI moves into core business processes, Java has an opportunity to enable organizations to integrate AI directly into the environments where their applications, data and engineering teams already operate.

From Platform Capabilities to an AI Ecosystem

The Java platform has made significant technical progress. Technologies such as the Foreign Function & Memory API and Vector API provide important foundations for high-performance AI workloads. The next challenge is the ecosystem: libraries, APIs, tools, integrations, examples, best practices, standards and proven production use cases that make these capabilities practical and accessible.

Java platform capabilities → AI libraries and tools → enterprise applications → production AI

Java & AI Working Group

Deep Netts has been actively contributing to the JCP Executive Committee's Java & AI activities, with Zoran Sevarac helping lead the Java & AI Working Group. We see the Working Group as an important mechanism for identifying gaps, connecting existing initiatives, sharing real-world requirements and encouraging collaboration across the Java ecosystem.

For the next term, we want to help connect JVM vendors, framework and library developers, enterprises, researchers, Java User Groups, universities and AI technology providers. Priorities include identifying ecosystem gaps, bringing enterprise AI requirements into discussions, encouraging practical examples and reference implementations, and strengthening cooperation between industry, academia and the community. The objective is not a single prescribed AI stack, but an environment in which multiple approaches can thrive on Java.

Bringing Production Experience into the JCP

Deep Netts brings practical experience developing high-performance AI technology within the Java ecosystem, including Java-native machine learning, CPU acceleration using the Vector API, GPU acceleration through the Foreign Function & Memory API and CUDA, and integration of AI workloads into enterprise Java environments. This gives us direct exposure to performance, hardware acceleration, API design, deployment, integration, maintainability and production operations - experience we can bring into JCP discussions.

Connecting the JCP with the Wider Java Community

Technical progress alone will not create a Java AI ecosystem. Deep Netts intends to continue connecting JCP and Java & AI activities with Java User Groups, conferences, universities, enterprise developers and organizations building Java technologies. We want to encourage more developers and organizations to experiment, contribute libraries and tools, share production experience and participate in discussions about the future requirements of the platform.

Our Commitment for 2026-2028

If elected for another term on the JCP Executive Committee, Deep Netts intends to remain an active participant in EC activities and contribute particularly where we can provide distinctive expertise: Java and Artificial Intelligence.

Help move Java from being a platform capable of running AI to an ecosystem where building and operating production AI in Java becomes a natural choice.

The foundations are increasingly in place. The next step is to build the ecosystem around them.