

Integration & Deployment

- Wrap LLM APIs into microservices
- Scale with Spring Boot, Quarkus, Micronaut
- Ensure stability & performance in enterprise systems

Libraries & Tooling

- LangChain4j → prompts, chains, memory, connectors
- DJL (Deep Java Library) → run models directly on JVM, no Python required

Enterprise Advantage

- Java infrastructure already exists in enterprises
- JVM performance & scalability
- Strong developer ecosystem

Real-World Use Cases

- AI-powered chatbots in Spring Boot apps
- Search & recommendation engines with LLM reasoning
- Document summarization & Q&A; systems
- Code assistants integrated into dev platforms

Takeaway

- Java is the bridge between AI research & enterprise applications
- LLMs deliver real business value in production