

GlobalLogic

A Hitachi Group Company

Streamlining the SDLC for a leader in global energy technology

A global energy technology leader needed to streamline its software development lifecycle (SDLC) to improve efficiency, enhance code quality, and maintain its competitive edge. With GlobalLogic's AI-powered SLDC solutions, we delivered:

20%

increased developer
productivity

50%

more unit test
coverage

20%

improved code
coverage



Challenge

Operating in a fast-paced, high-stakes industry, the client faced increasing pressure to deliver high-quality software under tight deadlines.

Their development teams needed a way to **automate repetitive coding tasks**, **improve code review efficiency**, and **boost test coverage** to maintain reliability and speed in software releases.

The goal was to integrate AI-driven solutions to streamline workflows, reduce manual effort, and ensure consistent software quality.

Value Created

- Integrated **AI-powered automation** to streamline critical SDLC tasks.
- **Enhanced code review processes** by detecting potential memory leaks and performance issues.
- Automated code documentation generation, **saving time** and **reducing manual effort**.
- Automatically generated unit test cases, **improving test coverage** and validation.

Impact

- **~20%** increase in developer productivity with task automation.
- **~20%** improvement in overall code coverage and **~50%** increase in unit test coverage.
- **Faster issue detection**, leading to reduced development time and improved software quality.
- Improved developer experience with **enhanced collaboration** and learning opportunities.