

Case Study

Speeding Up Modernization

Achieving 33% Faster Build and
Unit Testing with Gen AI for a
Global Leader in Assurance, Tax,
Transaction and Advisory Services



Client background

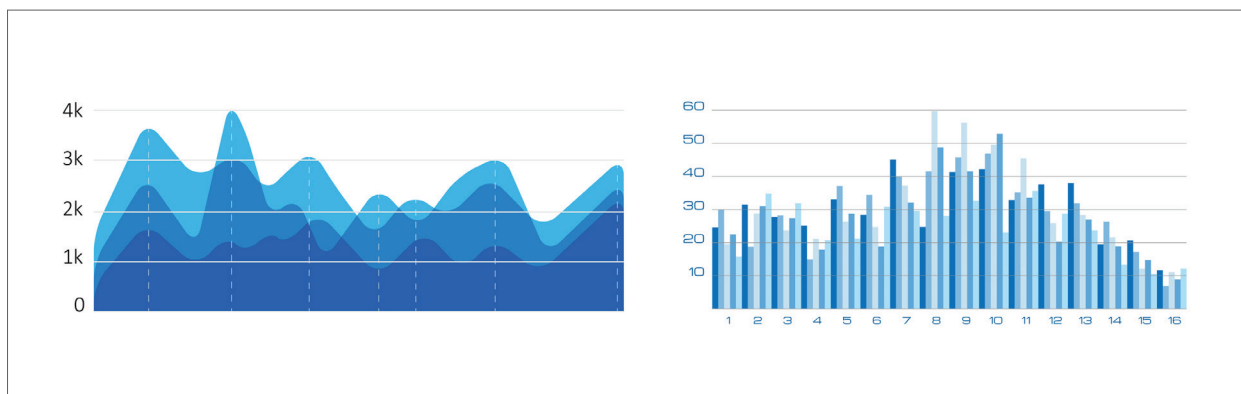


As one of the Big Four accounting firms, the client is a global leader in assurance, tax, transaction, and advisory services. To remain competitive and up-to-date, the company needed to modernize its audit platform by transitioning its web front from outdated Angular technology to the more current React framework.



Challenges

- The client wanted to modernize the web front end of their audit platform swiftly and cost-effectively by shifting from Angular to React
- The goal was to find an efficient method that could handle this significant update without extensive manual effort or extended timelines





Our work

- Proposed a proof-of-concept using Gen AI with Microsoft GitHub Copilot to address the transition challenge
- Created application context by utilizing existing artifacts such as test cases and API specifications, and generated code-level documentation using open-source libraries
- Developed technical context by mapping components from the source technology (Angular) to equivalent components in the target technology (React)
- Implemented a validation process with a human-in-the-loop to verify the accuracy and functionality of the generated code



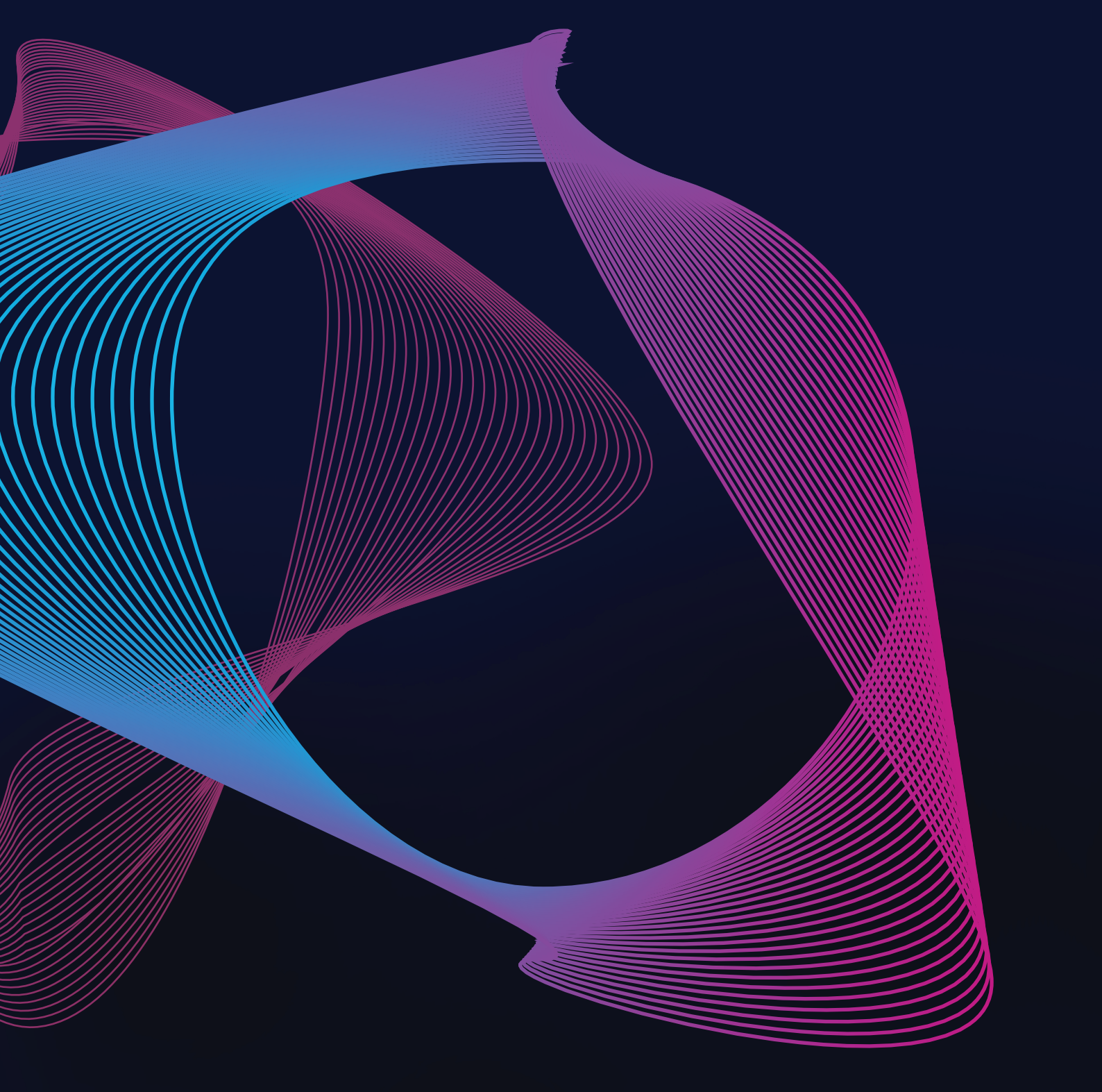
Tools & Technologies

GitHub Copilot | NodeJS | Compodoc



Business benefits

- Reduced the time to market for build and unit testing by **33%** compared to the manual approach
- Enabled the client to propose scaling this approach for the entire modernization program based on the successful proof-of-concept outcomes



About LTIMindtree

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