

## Digital Ascender: AI-Powered Engineering Companion

Digital Ascender is a generative AI-driven engineering companion designed to streamline and accelerate the software development lifecycle (SDLC). It's like your personal AI assistant, helping you with various tasks across all stages of development, from story creation to code optimization.

### Who can leverage Digital Ascender?

Everyone involved in the SDLC can benefit from Digital Ascender, including:

- **Product owners and business analysts:** Generate detailed user stories and acceptance criteria from simple one-liners.
- **Developers:** Get help with code generation, unit test creation, bug finding, documentation, and even code optimization.
- **Quality engineers:** Create comprehensive test scenarios and automate test scripts with ease.

### How does it work?

Digital Ascender uses advanced prompt engineering to understand your needs and deliver tailored AI-powered solutions. Some of the key use cases are:

- **Story Creation:** Product owners and business analysts can transform one-liner requirements into detailed user stories with acceptance criteria.
- **Test Scenario Generation:** Get a complete list of test scenarios to cover all aspects of a user story, ensuring thorough testing and eliminating manual labour.
- **Code Completion:** Write a single line and let Digital Ascender generate the entire function, complete with encryption details and user feedback options.
- **Unit Test Case Generation:** Helps developers focus on writing the code, while Digital Ascender handles the testing. Select a function, and automatically generate JUnit unit tests for complete code coverage.



- **Code Documentation:** No more struggling to understand unfamiliar code. Select a snippet, and Digital Ascender provides detailed documentation explaining function, parameters, and purpose.
- **Find Bugs:** Identify potential bugs in your code yourself with Digital Ascender's bug analysis. Get a list of corrections needed for security, performance, and maintainability.
- **Code Optimization:** Optimize existing code for performance and security. Select a function, and Digital Ascender provides optimization strategies and the optimized code itself, ready to replace the original.
- **Reverse Engineering:** Seamlessly transition knowledge between teams. Understand legacy code by translating it into plain English, line by line.

## Business Benefits

- **Increased productivity:** Engineers save time and effort on repetitive tasks, allowing you to focus on more strategic work.
- **Improved quality:** Digital Ascender helps generate higher-quality code with comprehensive tests, documentation, and optimization suggestions.
- **Faster development cycles:** Digital Ascender streamline the SDLC by automating tasks and accelerating development processes.
- **Enhanced collaboration:** Share information and insights easily across teams with a centralized AI-powered platform.

# ASCENDION

Ascension is a leading provider of AI-first software engineering services. Our applied AI, software engineering, cloud, data, experience design, and talent transformation capabilities accelerate innovation for Global 2000 clients. Ascension is headquartered in New Jersey. In addition to our remote/hybrid workforce, we have more than 20 offices across the US, India, and Mexico. We are committed to building technology powered by generative AI with an inclusive workforce, service to our communities, and a vibrant culture. For more information, please go to [ascension.com](https://ascension.com).

