

How your entire team can adopt AI



Code creation is the most common AI use case, but it only scratches the surface of what’s possible. Discover how your entire team can incorporate AI into their day-to-day workflow with **GitLab Duo**, a suite of AI-powered features that support teams within GitLab, enabling them to streamline workflows, boost productivity, and increase collaboration.

Developers: AI-driven innovation goes beyond code creation

47%

Of respondents would like to use AI to support code generation and code suggestions

<25%

Of a developer’s time is spent writing new code

While AI can certainly support developers in code creation, the majority of a developer’s time is spent elsewhere. GitLab found that developers split their remaining time between: meetings and administrative tasks, improving, understanding, and maintaining code, testing, and identifying and mitigating security vulnerabilities.

Developers want more from their tools than code creation, and, fortunately, AI can support many of these tasks in a developer’s day-to-day through:

- ✓

Code explanations:
Receive detailed descriptions of the code and how it functions
- ✓

Code refactoring:
Enables developers to simplify and improve existing code
- ✓

Git suggestions:
Discover or recall Git commands when and where developers need them
- ✓

Root cause analysis:
Determine the reason for pipeline failures or failed CI/CD builds and recommend solutions
- ✓

Suggested reviewers:
Get a list of reviewers with contextual knowledge by going through merge request (MR) changes and a project’s contribution graph
- ✓

Summarization:
Receive relevant summaries of MR changes and MR or code reviews to communicate the impact of the changes and better understand MR suggestions

Security and operations: Integrate AI across the entire SDLC

Developer use cases may be the first that come to mind when integrating AI into workflows, but AI can also support security and operations teams. In fact, teams are already using AI for test generation and vulnerability explanation.

32%

Of respondents use test generation tools

29%

Of respondents use vulnerability explanation tools

AI supports security and operations teams through:

- ✓

Test generation:
Generates code that can be copied into test source code files, relieving teams of repetitive tasks, while helping catch bugs early
- ✓

Vulnerability explanation:
Provides explanations of security vulnerabilities and guidance on how to resolve them
- ✓

Vulnerability resolution:
Generates an MR with the changes required to mitigate a vulnerability

Beyond DevSecOps: Use cases for all team members

While DevSecOps may be the team that spearheads AI usage, AI is important for members across your organization. It provides additional background information for technical and non-technical users, supports greater collaboration with DevSecOps, and gives team leaders the analytics and insights they need to make informed decisions.

In fact, the top AI use cases that respondents are interested in, include:

38%

Are interested in forecasting productivity metrics and identification of anomalies across the SDLC

36%

Are interested in chatbots that allow users to ask questions in documentation in natural language

AI supports all team members with:

- ✓ **AI-powered chat assistants:**
Gives guidance and time-saving assistance, such as explaining a section of code in natural language or helping users reset their password
- ✓ **Issue and MR descriptions:**
Creates a rundown of important information and tasks within an issue and an MR, surfacing missing or incomplete tasks
- ✓ **Issue comment summaries or discussion summaries:**
Gets teammates up to speed on lengthy conversations to ensure everyone is on the same page
- ✓ **Productivity analytics and forecasting:**
Analyzes historical data trends to predict productivity and value stream metrics, as well as identify anomalies across the SDLC

Embrace AI across teams with GitLab Duo

GitLab Duo integrates AI directly into your GitLab DevSecOps platform to provide real-time guidance across the SDLC.

With features such as AI-powered code suggestions, test generation, code explanations, and AI root-cause analysis, GitLab Duo enables teams to write secure code, understand and remediate vulnerabilities, and collaborate across teams more efficiently.

Give your teams the tools they need to ship secure software faster. Explore [GitLab Duo's features](#) and get started with a [free trial](#) today.