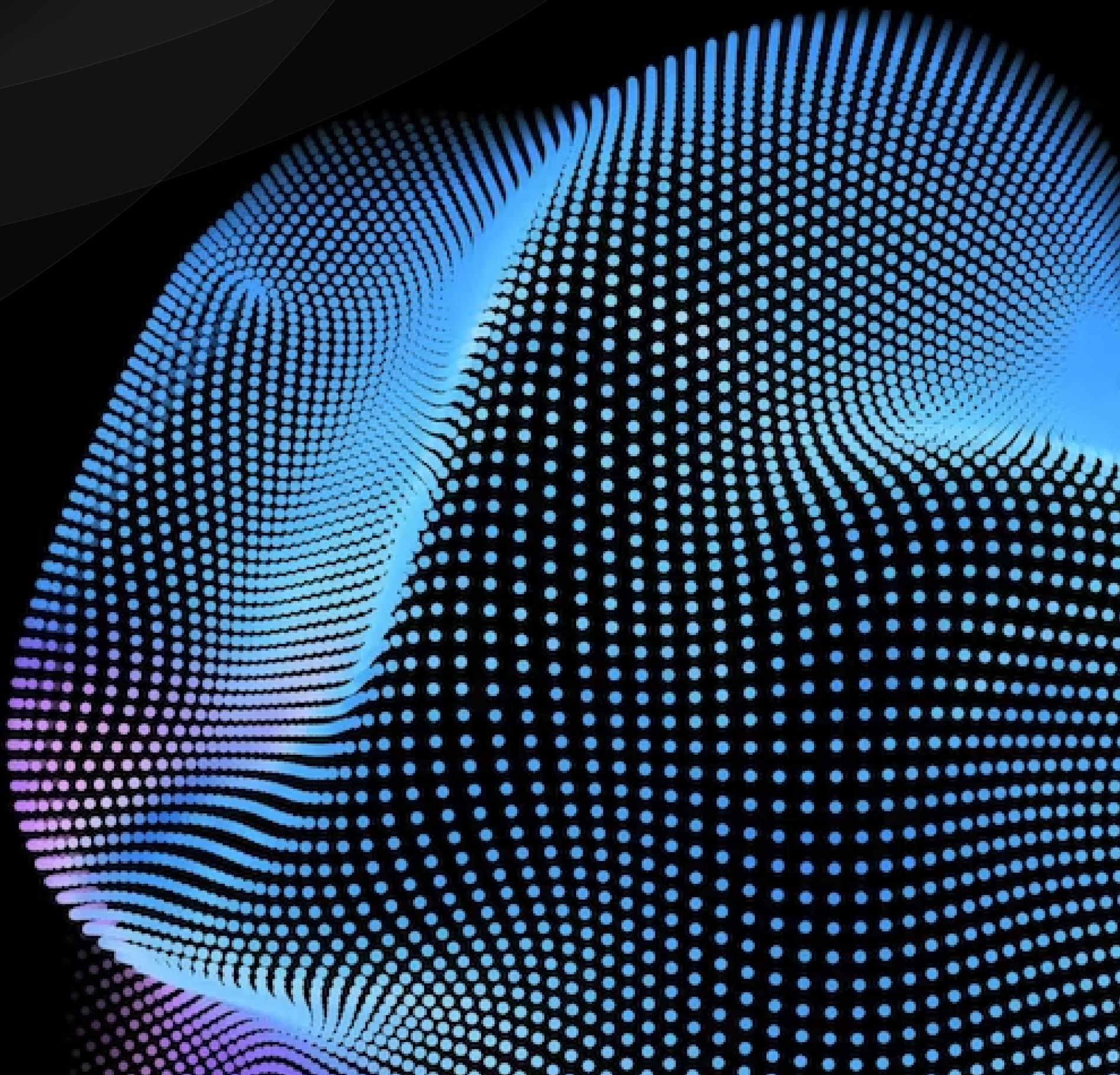




# How AI Is Transforming Project Management



Artificial intelligence (AI) has emerged as a game-changer across various industries in today's rapidly evolving technological landscape.

Organizations strive for greater efficiency, accuracy, and improved decision-making, so project managers increasingly embrace artificial intelligence to enhance their planning, execution, and monitoring flows.

Gartner's research predicts that by 2030, 80% of project management tasks will be run by AI, powered by big data, machine learning (ML), and natural language processing.

However, the integration of AI in project management is not without its challenges. Concerns about data privacy and security, ethical considerations, resistance to change, and the need for upskilling and reskilling project management professionals are just some hurdles organizations are not always ready to address.

When creating this research, we examined case studies, industry trends, and expert opinions to offer you valuable insights into the current state of AI adoption in project management and its future implications.

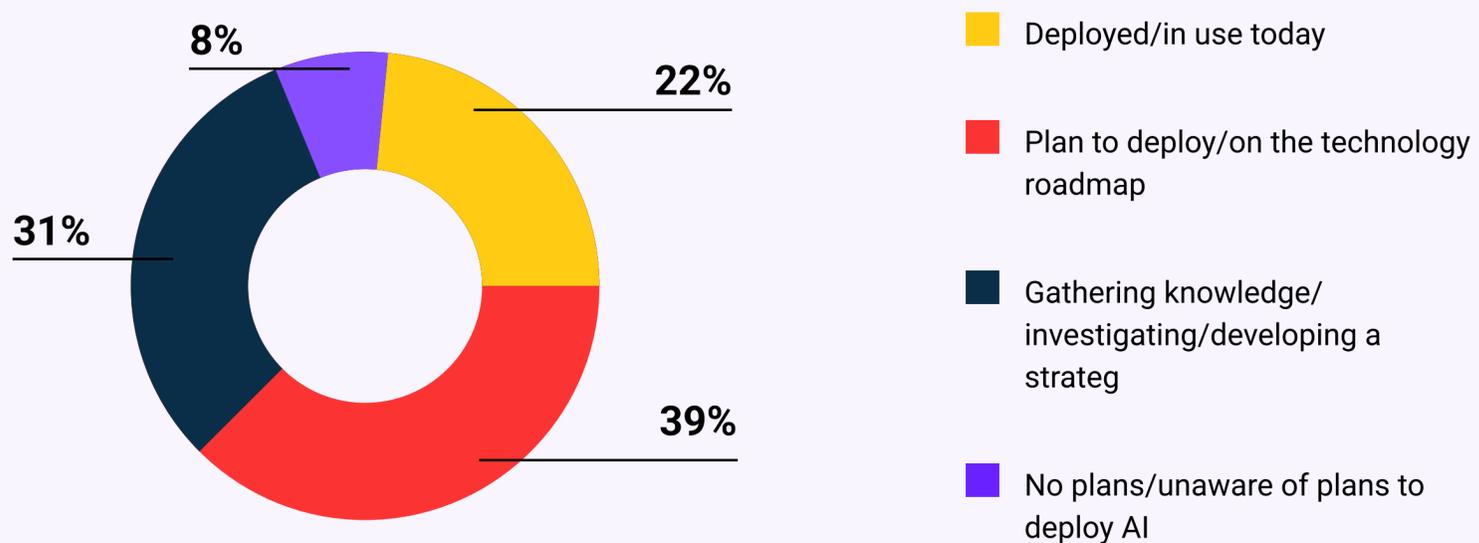
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# The Percentage of Businesses Already Using AI to Manage Projects

AI, or artificial intelligence, is the simulation of human intelligence in machines programmed to perform tasks that typically require it. AI systems can learn, reason, and make decisions based on data and algorithms.

They can analyze large amounts of information, recognize patterns, and adapt to new situations. That is why the majority of project managers are already using AI or planning to soon.

## How Many Project Managers Already Use AI?



Based on the 2023 AI in Project Management Survey by [Capterra](#)



### Takeaway

Businesses want to adopt AI technology to drive operational excellence and gain a competitive advantage in an increasingly complex environment.

# How AI Can Change Your Project Management

Using AI in projects can have several positive impacts, revolutionizing project management practices and improving project outcomes.

## The Positive Impacts AI Can Have on Your Projects

Project success rate improvement by

**25%**

Team productivity growth by

**25%**

Project cost reduction by

**10%**

(Based on the [Business2Community](#) statistics)



### Takeaway

AI can offer trillions of dollars in value to organizations and the economy as a whole.

# AI Use Cases

Using AI in projects can have several positive impacts, revolutionizing project management practices and improving project outcomes.

## Key AI Applications in Project Management



Respondents say the top reasons for using PM software are:

- ✔ Project schedule management (47%)
- ✔ Project progress tracking (47%)
- ✔ Team workload/task management (44%)



Respondents say the top benefits of AI in PM are:

- ✔ Automating tasks (33%)
- ✔ More effective use of resources (32%)
- ✔ Team workload/task management (44%)

Based on the 2023 AI in Project Management Survey by [Capterra](#)



- **Scheduling and forecasting.** AI algorithms can generate accurate project schedules based on task dependencies, resource availability, project constraints, etc. Additionally, AI can provide accurate project forecasts by considering historical data, project progress, and potential delays, enabling project managers to manage expectations and set realistic timelines.
- **Project progress tracking.** AI can monitor project progress in real-time and provide feedback on key performance indicators. By analyzing project data and comparing it against predefined benchmarks, AI systems can alert project managers to deviations or potential issues, allowing for timely corrective actions.
- **Intelligent automation.** AI-powered automation can streamline repetitive and routine tasks in project management. These include resource allocation, scheduling, task assignment, and progress tracking. By automating these tasks, project managers can save time, reduce errors, and focus on more strategic aspects of project management.
- **Resource optimization.** AI algorithms can analyze resource availability, skills, and workload to optimize resource allocation across multiple projects. By considering project requirements, resource availability, and skillsets, AI can help project managers allocate resources effectively, ensuring that projects are adequately staffed and completed on time.
- **Increased accuracy.** AI systems can learn from past projects' successes and failures, applying these lessons to future projects to increase their accuracy and success rate.

### Other AI Use Cases

- **Predictive analytics.** AI algorithms can make predictions based on historical data and patterns. In project management, predictive analytics can help project managers forecast project outcomes, estimate completion dates, and identify potential risks or issues.

- **Reporting.** AI can automatically gather data from various sources, such as project management software, communication platforms, and team collaboration tools. It can then analyze and consolidate this data, providing project managers with accurate and up-to-date information for reporting purposes and allowing them to generate customized reports based on individual stakeholder preferences automatically.
- **Natural language processing (NLP).** NLP allows computers to understand and process human language. In project management, NLP can be used in chatbots, virtual assistants, and collaboration tools to facilitate communication and gather updates from team members. NLP can also help analyze project documentation, requirements, and other textual data, improving document management and decision-making processes
- **Risk management.** AI can assist project managers in identifying and managing risks. By analyzing historical project data and external factors, AI systems can help project managers assess risks, predict their potential impacts, and develop mitigation strategies. AI can also continuously monitor project data, alerting project managers to potential risks or deviations from the plan and allowing for timely corrective actions.
- **Decision support.** AI can provide decision support to project managers by presenting relevant data, insights, and recommendations. By analyzing project data, AI can offer alternative scenarios, simulate potential outcomes, and help project managers make informed decisions based on objective information.

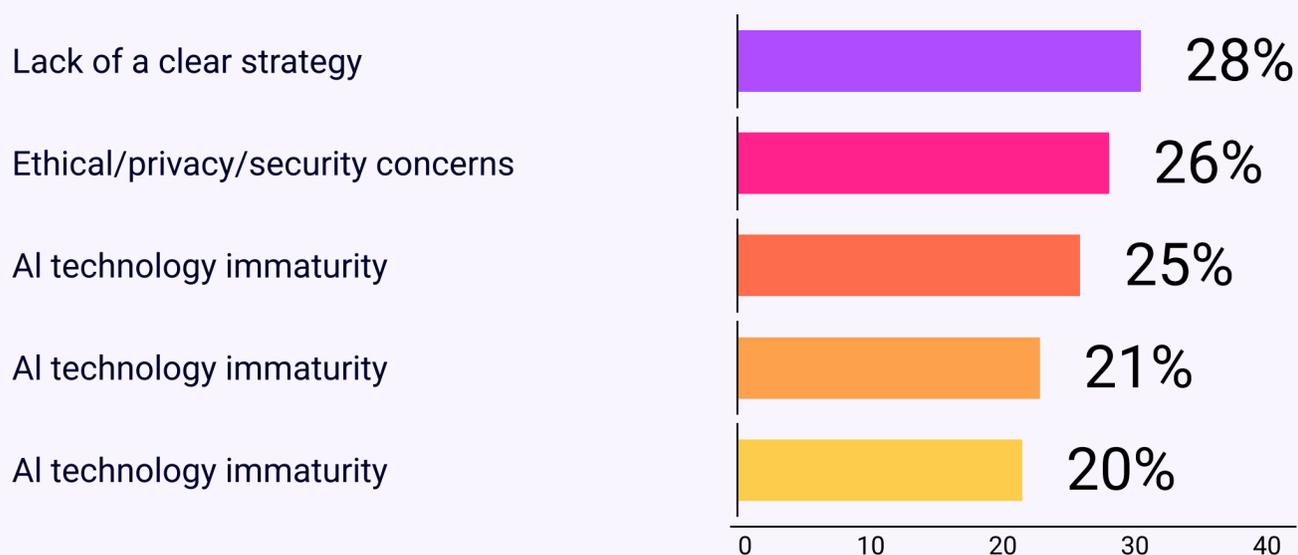
### **Takeaway**

By leveraging AI technologies, project teams can streamline communication, automate routine tasks, optimize resource allocation, manage risks effectively, and identify cost-saving opportunities. These advancements ultimately lead to increased team productivity, improved project success rates, and reduced project costs.

# Barriers to Using AI in Project Management

While AI offers numerous benefits, its implementation does come with certain challenges. Addressing these requires careful planning, stakeholder engagement, and a clear understanding of the limitations and capabilities of AI.

## Main Challenges Associated With AI in Project Management



Based on the 2023 AI in Project Management Survey by Capterra



- **Lack of clear strategy.** Organizations may struggle to integrate AI into project management practices effectively without a clear strategy and roadmap for AI implementation. Lack of alignment between AI initiatives and project objectives will lead to misaligned priorities, inefficient resource allocation, and failure to achieve desired outcomes.
- **Ethical considerations.** Bias, fairness, accountability, and transparency become significant concerns when AI is involved in decision-making. If there are no ethical guidelines, ensuring fairness and accountability in AI algorithms, these concerns can erode trust and hinder AI adoption if not adequately addressed.
- **Data privacy and security.** AI requires access to project data, which may include sensitive information. Protecting data privacy and ensuring secure storage and transmission of data becomes critical. However, robust security measures and relevant data protection policies mitigate the risk of data breaches or unauthorized access.
- **AI technology immaturity.** AI systems may lack accuracy and reliability, providing incomplete, inaccurate, or inconsistent data that leads to skewed insights and unreliable predictions. Besides that, the inability of some AI tools to handle complex project scenarios creates the need for extensive customization and integration efforts or significant human intervention, limiting their immediate effectiveness.

- **Lack of project managers' skills.** AI implementation requires project managers and team members to have the necessary skills and expertise to utilize AI tools and interpret AI-generated insights effectively. Upskilling and reskilling efforts may be necessary to ensure project management professionals can leverage AI technologies to their full potential.
- **Additional Challenges**
- **Change management and resistance.** Implementing AI in project management often requires process, tool, and role changes. Resistance to change from project team members or stakeholders can pose challenges.
- **Integration with existing systems.** Integrating AI systems with existing project management tools and processes can be challenging due to compatibility issues, data migration, and system integration complexities.
- **Job displacement.** As AI systems automate certain tasks traditionally performed by humans, there is a risk of job displacement. This can lead to concerns about unemployment and the need for retraining or upskilling the existing workforce.
- **Overreliance on AI.** Using AI without human oversight can be risky. Managers still play a crucial role in interpreting AI-generated insights, exercising judgment, and applying their expertise to lead and manage projects effectively.

**Takeaway:** Implementing AI properly requires focused efforts and proactive measures.

- Developing a clear AI strategy that aligns with project goals and objectives.
- Establishing ethical guidelines and ensuring AI systems' transparency, fairness, and accountability.
- Collaborating with AI technology providers and staying abreast of advancements to leverage mature AI technologies.
- Investing in training and upskilling project managers to enhance their understanding of AI and its application in project management.

Quite a few modern project management software providers have already harnessed the power of AI to let their users save time on routine tasks. Let's take a closer look at some of these tools.

# AI Tools You Might Be Already Using

Quite a few modern project management software providers have already harnessed the power of AI to let their users save time on routine tasks. Let's take a closer look at some of these tools.

## AI-Powered Project Management Tools

Tool	AI Application	😊	😞
Trello	NLP	<ul style="list-style-type: none"> <li>Saves time</li> <li>Streamlines card creation</li> <li>Improves team communication</li> </ul>	<ul style="list-style-type: none"> <li>Complex manual customization</li> <li>Content-related features only</li> <li>Contradicts Business Associate Agreement (BAA)*</li> </ul>
Motion	<ul style="list-style-type: none"> <li>Scheduling</li> <li>Task Management</li> </ul>	<ul style="list-style-type: none"> <li>Speeds up task and content creation</li> <li>Catches grammar and spelling mistakes</li> <li>Combines process automation and AI</li> </ul>	<ul style="list-style-type: none"> <li>No free subscription plan</li> <li>Complex manual customization</li> </ul>
Ayanza	<ul style="list-style-type: none"> <li>Task Management</li> <li>NLP Reporting</li> </ul>	<ul style="list-style-type: none"> <li>Speeds up task and content creation</li> <li>Adds consistency to texts</li> <li>Improves team communication</li> </ul>	<ul style="list-style-type: none"> <li>Complex manual customization</li> <li>May not fit for big teams</li> <li>Is mostly useful at the initial and final stages of the project.</li> </ul>
ClickUp	NLP	<ul style="list-style-type: none"> <li>Offers rich functionality</li> <li>Adds consistency to texts</li> <li>Requires minimum manual setting</li> </ul>	<ul style="list-style-type: none"> <li>Content-related features only</li> <li>High price for SMBs and solo users</li> </ul>
Notion	NLP	<ul style="list-style-type: none"> <li>Streamlines database search</li> <li>Speeds up task and content creation</li> <li>Adds consistency to texts</li> </ul>	<ul style="list-style-type: none"> <li>Comes at additional cost</li> <li>Content-related features only</li> </ul>
Wrike	<ul style="list-style-type: none"> <li>NLP</li> <li>Prioritization</li> <li>Forecasting</li> </ul>	<ul style="list-style-type: none"> <li>Offers rich functionality</li> <li>Digitizes texts</li> <li>Recognizes voice commands</li> </ul>	<ul style="list-style-type: none"> <li>High price for SMBs and solo users</li> <li>No note-taking tool</li> <li>Minor implementation issues</li> </ul>

\* Before activating Atlassian Intelligence, we recommend you confirm with your privacy and security teams that it suits your organization's needs.

You should not activate Atlassian Intelligence if your organization has a Business Associate Agreement (BAA) in place for HIPAA compliance.

## Trello

Trello is a web-based task and project management platform. It provides a flexible visual solution that allows users to create and manage virtual boards, lists, and cards to track progress and collaborate on various projects.

Trello users can leverage **Atlassian Intelligence** to generate, transform, summarize, and find the content they need for work.

Atlassian Intelligence AI helps generate new ideas based on the provided topics or keywords, shorten and improve texts, create bulleted lists, fix grammar and spelling mistakes, and change the tone of voice of the extract.

The screenshot displays the Trello AI interface within a 'Description' field. At the top, there is a rich text editor toolbar with options for text color (Aa), bold (B), italic (I), bulleted list, link, unlink, insert, and a star icon. Below the toolbar, the original text is highlighted: 'Send all invoices to clients until the edn of the week, print the background and contact engineers about the new project'. A modal window is open, showing the AI's suggestion: 'Change tone to professional'. The modal contains the transformed text: 'Please ensure that all invoices are sent to clients by the end of the week. Additionally, please print out the background information and contact engineers regarding the new project.' At the bottom of the modal are buttons for 'Cancel', 'Undo', 'Copy', 'Insert below', and 'Replace'. Below the modal, there is a star icon and the text 'Tell AI what to do next'. At the very bottom of the interface, there is a 'BETA' notice: 'Information quality may vary. Learn why' and a 'Formatting help' button.

If customized correctly, Atlassian Intelligence can save a lot of time on creating and editing cards, but it won't help in planning and distributing workload or tracking progress in any way.

However, Trello offers integration with other Atlassian products incorporating more AI features.

For example, by integrating Trello with Jira, users can leverage Jira's AI-powered functionalities, such as advanced analytics, predictive analytics, and automation capabilities.

This integration allows users to connect Trello boards with Jira projects, enabling seamless collaboration and leveraging AI capabilities within the Atlassian ecosystem.

By integrating with Butler, an AI-powered automation tool, Trello users can create custom commands and workflows to automate repetitive tasks, streamline processes, and enhance productivity.

Butler uses natural language processing (NLP) to understand user commands and automate actions based on predefined triggers and rules. It enables users to create rules using simple if-then statements, making it accessible to users without programming knowledge. another list and a condition could be assigned a due date.

# Motion Project Manager

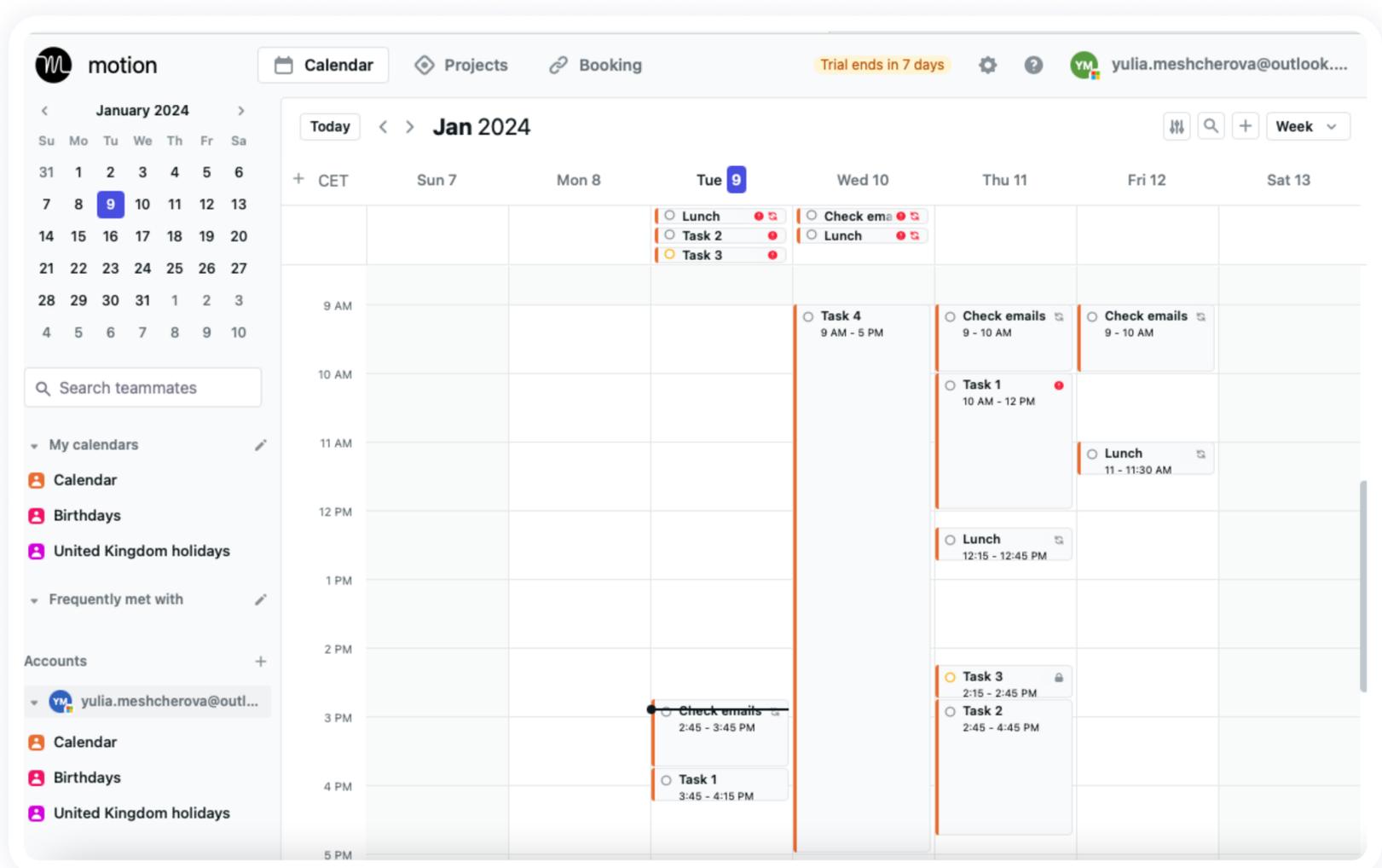
Motion Project Manager is an AI-powered tool for managers planning and running complex projects involving multiple tasks and team members.

The AI in Motion Project Manager analyzes project data, historical information, and industry best practices to generate accurate project plans, timelines, and resource allocation strategies.

It automatically identifies dependencies between tasks, estimates task durations, and allocates resources based on skill sets and availability.

The Motion AI can also monitor project progress in real-time by analyzing data from various sources, such as task completion rates, team performance, and resource utilization. It can identify potential bottlenecks or risks in the project and suggest proactive measures to mitigate them.

Motion Project Manager AI can also provide predictive analytics by leveraging historical project data and machine learning techniques. It can forecast project outcomes, estimate project costs, and identify areas where improvements can be made to optimize project performance.



While Motion Project Manager AI can provide numerous benefits and streamline project management processes, it also has disadvantages. Motion AI lacks human intuition and may struggle to understand complex or ambiguous situations. For example, most tasks are assigned medium priority, which means that the prioritization algorithm leaves much to be desired.

# Ayanza

Ayanza is a platform that focuses on effective communication and collaboration, guiding teams through project processes, ensuring effective completion, and providing valuable metrics and data to analyze and measure progress at every project stage.

Ayanza is designed to assist with natural language processing and provide AI-powered solutions for various industries. It offers AI-enhanced notes implemented using OpenAI.

The AI utilizes deep learning algorithms to understand and generate human-like text. It is trained on a large dataset of diverse text sources, including books, articles, and websites, to develop a comprehensive understanding of language patterns and semantics.

### Ayanza AI ✕

 Hi Yulia, what would you like to achieve?

**I would like to plan a new marketing project for my team** YU

 I found a project called "My First Project" in your organization. It has a description and 6 tasks associated with it. What specific details would you like to know about the project?

**report, time consumption, tasks** YU

 Here are the tasks for the "My First Project":

1. Create a Project and 3 Tasks based on your priorities (In Progress)
2. Share your tasks with your Team (ToDo)
3. Plan your weekly priorities (ToDo)
4. Discover power of note-taking (ToDo)

Let me know if you need any more information.

The AI model behind Ayanza is based on transformers, which are deep learning architectures specifically designed for language processing tasks. These transformers enable Ayanza to analyze and generate highly accurate and coherent text.

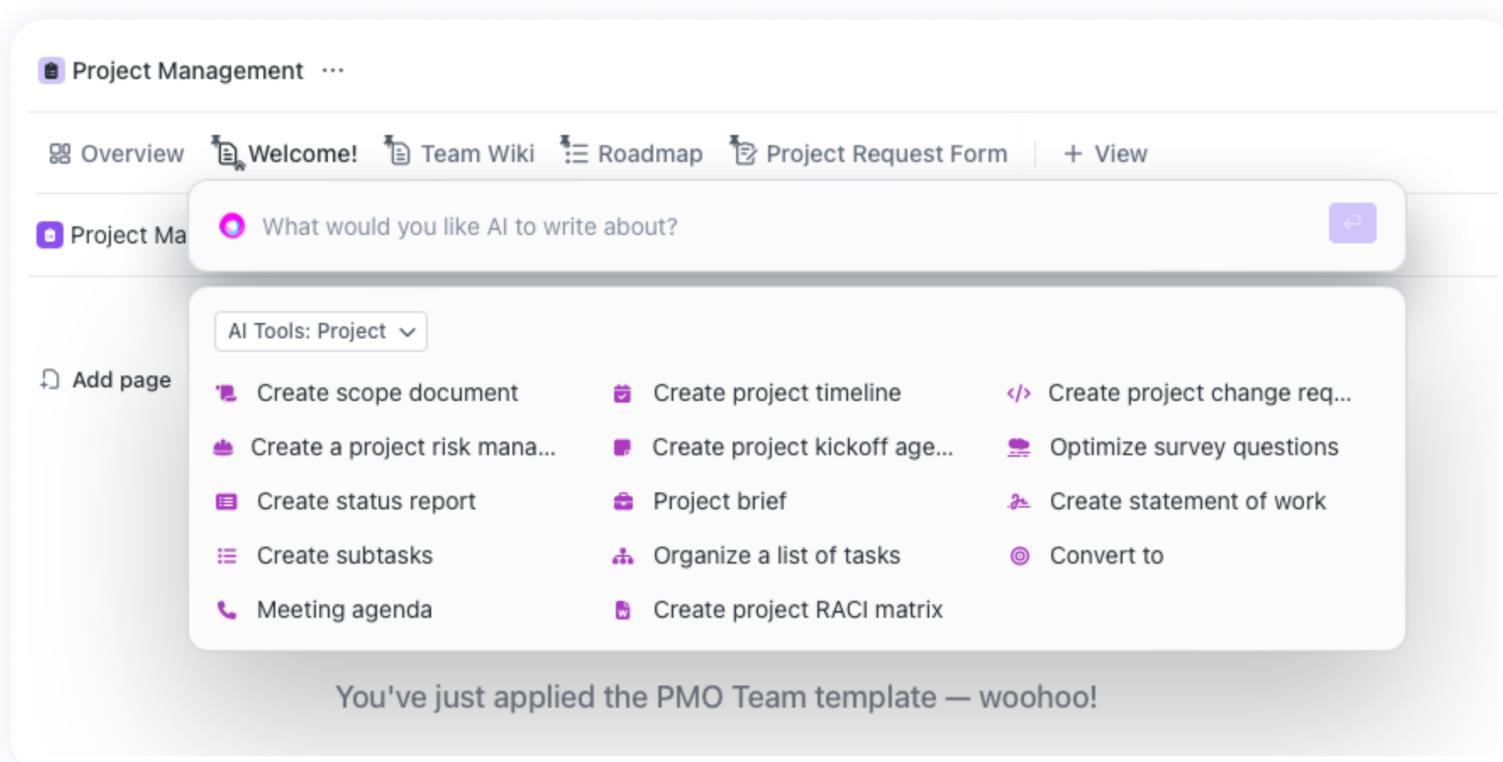
The tool can be used for brainstorming, drafting emails, generating code snippets, answering questions, creating conversational agents, reporting, analyzing buyer persona and target audience, and more.

## ClickUP

ClickUp is a project management and collaboration tool offering features like task management, document sharing, goal tracking, time tracking, and communication tools.

ClickUp AI is currently available in task descriptions and comments, email, Docs, Inbox, the toolbar, Notepad, Chat view, and Chat Dashboard cards. It utilizes NLP to understand and interpret user commands and queries.

Users can interact with the platform using natural language, making creating tasks, setting reminders, or searching for specific information more accessible.



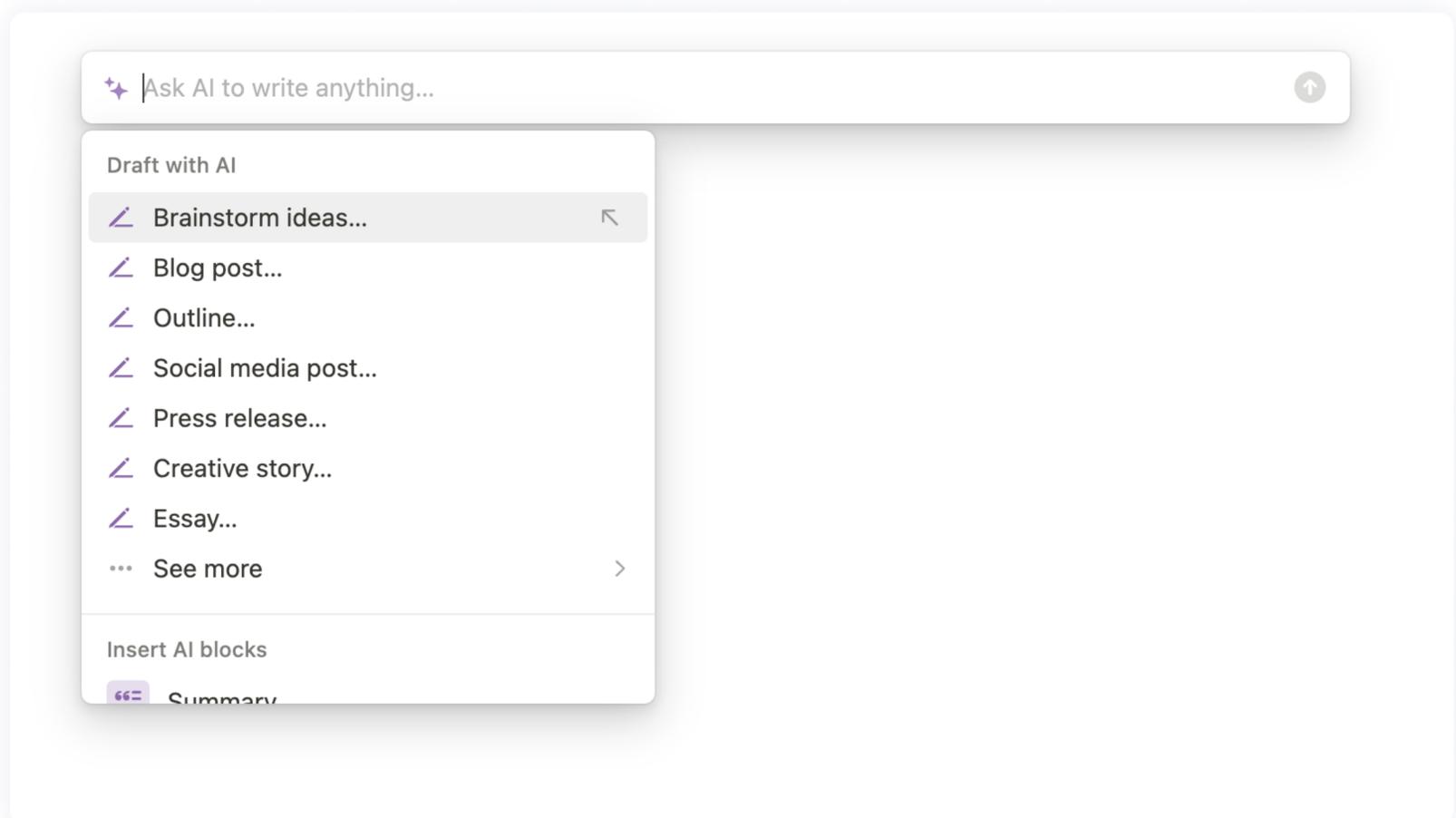
In terms of functionality, we can call ClickUp AI one of the most powerful in the market, as apart from basic writing, spellchecking, and summarization capabilities, it offers automated translation, AI research-based prompts, and a wide variety of templates for different roles and purposes.

But still, there are no functionalities directly related to project management.

# Notion

Notion is a collaboration tool that allows users to create and organize notes, documents, databases, and more. It provides a flexible workspace where users can customize their layouts and workflows to fit their needs.

Notion AI is a feature that enables the tool to understand and interpret natural language input from users. It can process natural language queries to retrieve and summarize information from databases or provide intelligent suggestions for improving your content.



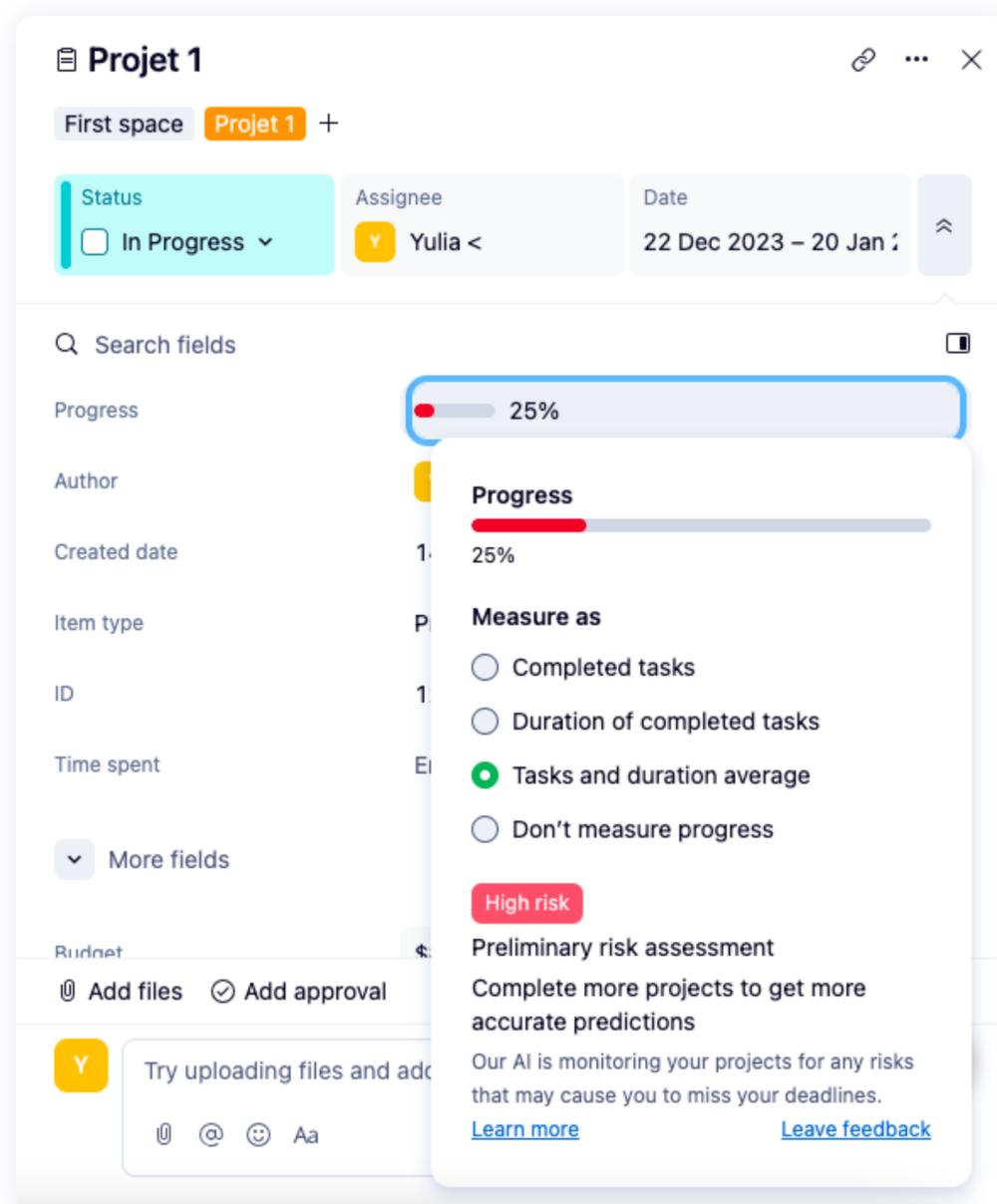
In a few words, Notion AI offers the same functionality as Trello, apart from database search, meaning no specific features for budgeting or forecasting are offered.

# Wrike

Wrike is a cloud-based platform that leverages artificial intelligence and machine learning technologies to enhance project management capabilities.

Wrike AI, Wrike's Work Intelligence, analyzes data from various sources, such as project tasks, documents, and team communication. It then applies algorithms to identify patterns, trends, and insights to help teams make better decisions and optimize their workflows.

Wrike AI can automatically analyze tasks and suggest the best ways to organize and prioritize them based on factors like deadlines, dependencies, and resource availability, as well as predict project timelines and potential risks.



Like most tools above, Wrike AI understands natural language inputs, such as task descriptions or comments, can extract relevant information, make translations, and provide writing recommendations.

What makes Wrike stand out is its ability to extract content from paper documents using the OCR technology and understand simple voice commands via integration with Siri.

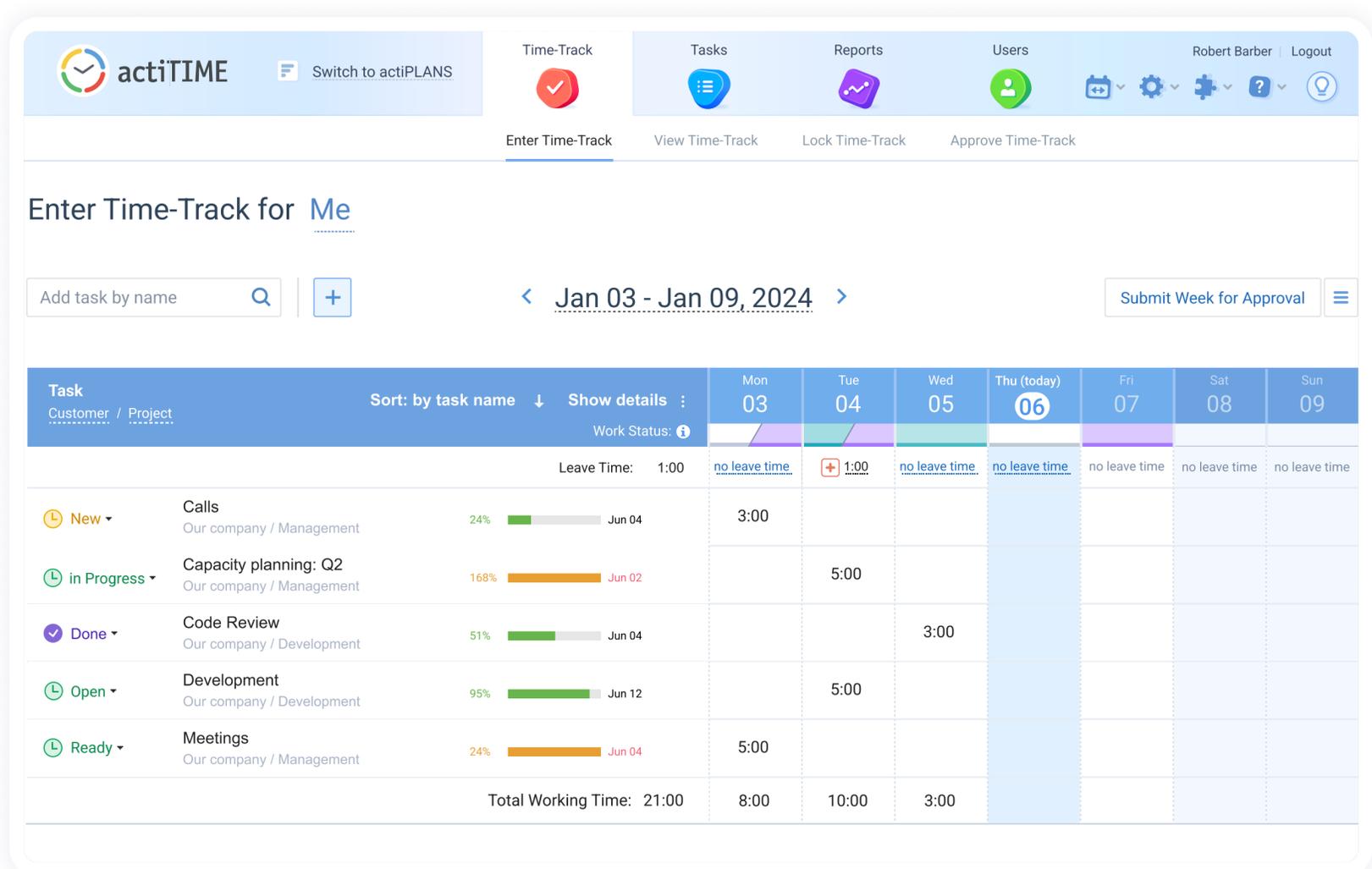
**Takeaway:** Most market players offer AI-powered content writing assistants that excel in natural language processing, understand user commands, and provide prompt responses. These tools can enhance productivity, simplify tasks, and assist users in various domains. However, their scope is primarily limited to individual or small-scale use cases.

There is a lack of fully-fledged AI project management tools that would offer a comprehensive suite of features designed to cover the full project lifecycle.

# actiTIME Intelligence to Supercharge Projects

The research data and the analysis of popular tools shows project management tools that incorporate AI are still evolving. While they hold great potential for improving efficiency and productivity, their current level of maturity often falls short of meeting the complex needs of modern business.

actiTIME with its robust and comprehensive project management features can bridge the gap left by the incomplete AI-based software, providing a reliable solution for managing workloads, tracking progress, and enhancing productivity. It also lets businesses leverage historical data analysis to predict future projects' outcomes.



By analyzing past projects' performance, time records, and associated costs, actiTIME helps identify patterns, estimate resource needs, and optimize project processes.

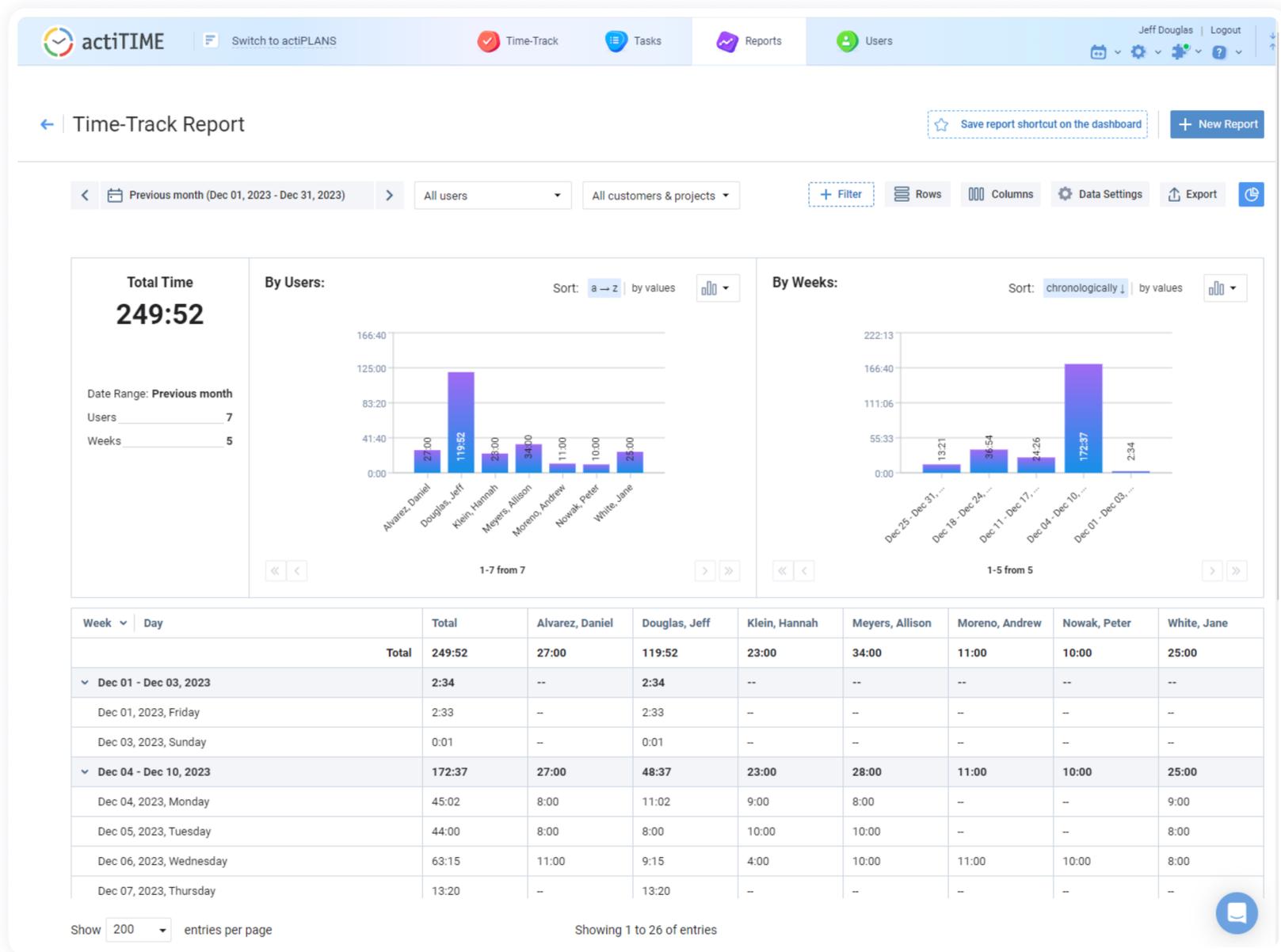
Let's see how it works at the key project stages.

## Forecasting and planning

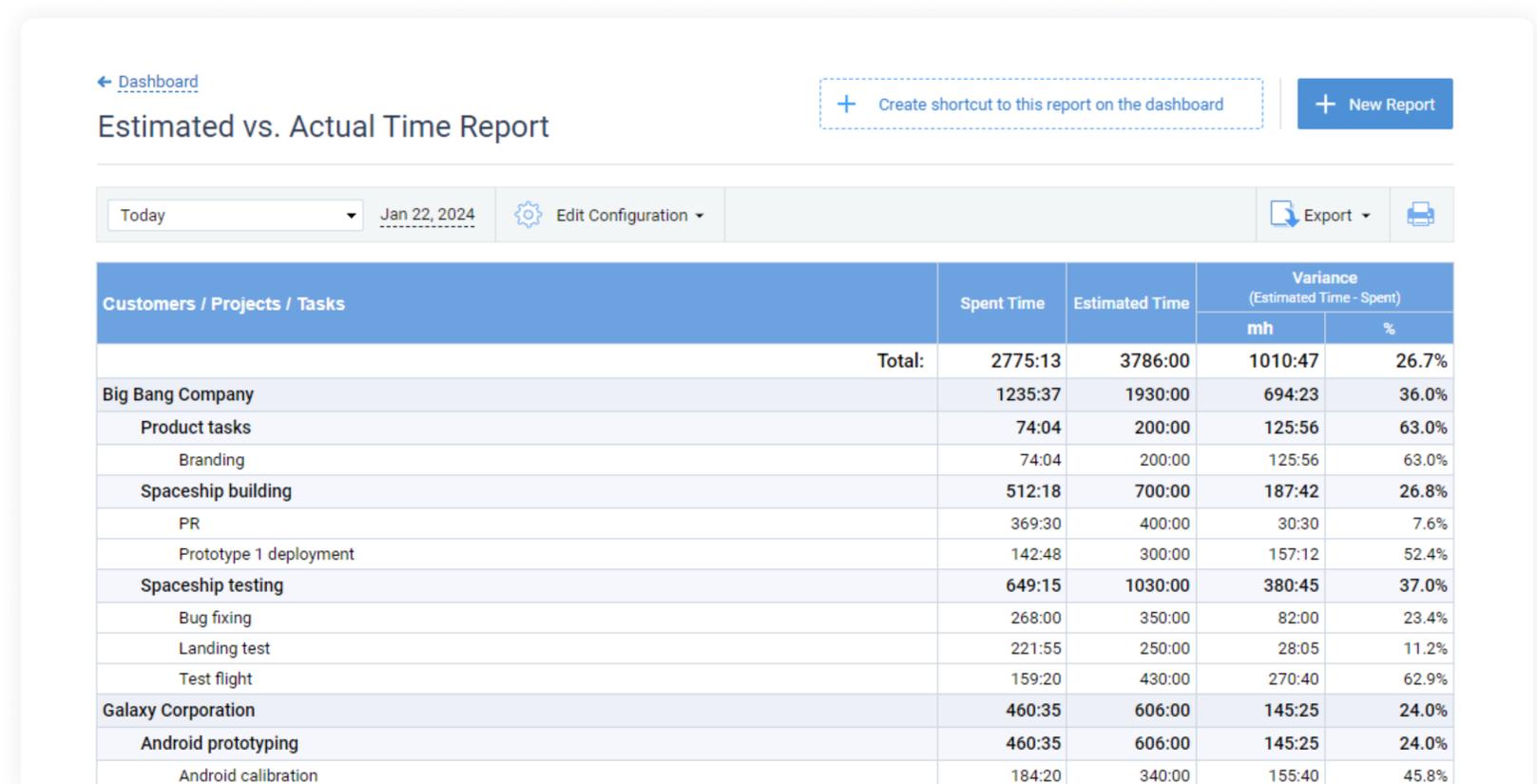
- Analyze data related to similar projects using various task attributes to estimate the overall project timeline and identify any potential bottlenecks or dependencies.
- Look at the current resource utilization to forecast resource requirements for future projects and ensure that the right resources are allocated to the right tasks at the right time.
- Create detailed project plans and schedules, set time estimates for each task and subtask, and communicate them to your team to ensure even workload distribution and prevent delays.

## Time and cost management

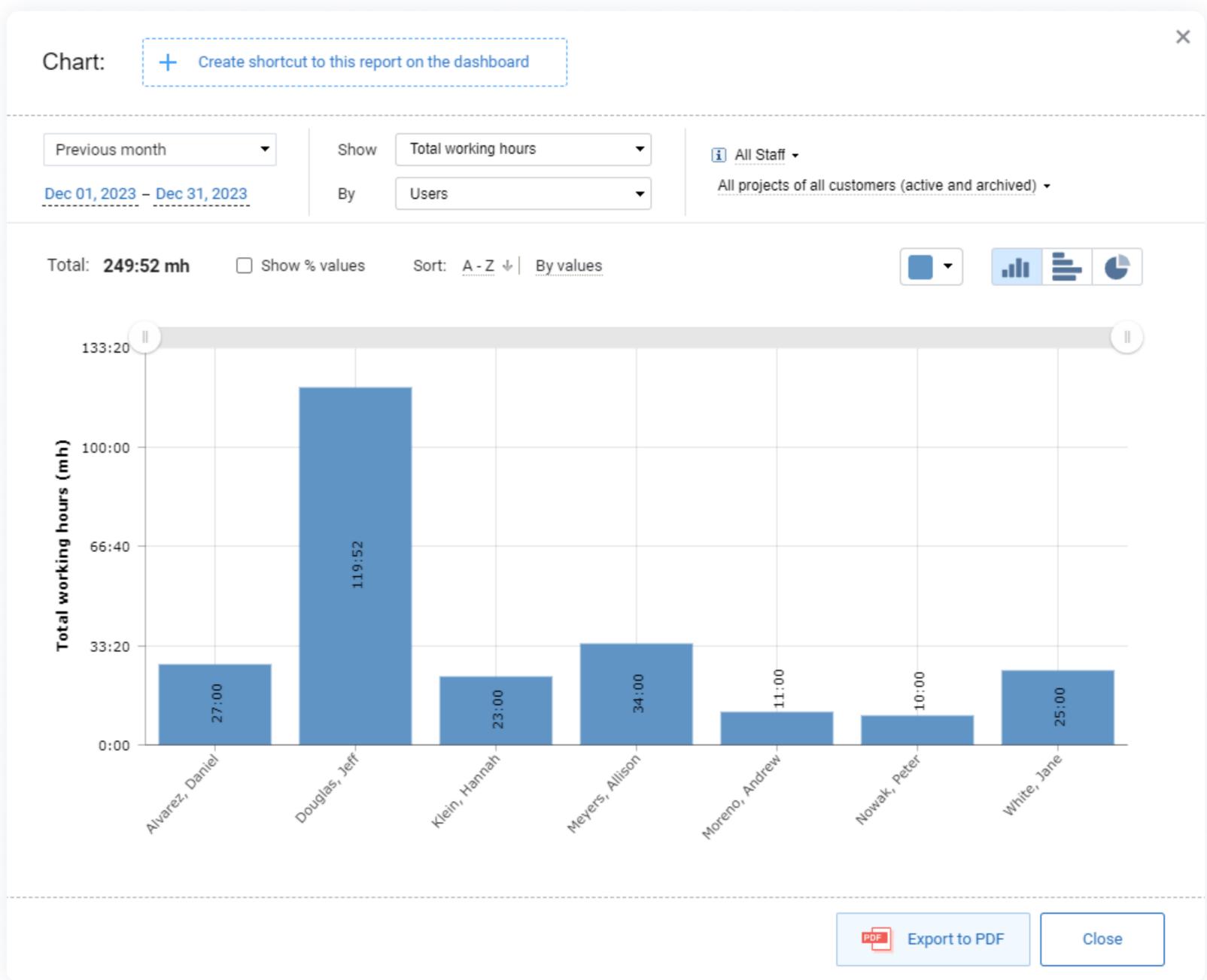
- Analyze how your team members allocate time based on various parameters.



- Track the actual effort put into each task and compare it with the estimated effort to identify any deviations from the planned schedule.



- Monitor the amounts payable to employees by specific types of work, and understand how you can optimize work costs and guarantee the profitability of your projects.



# Conclusion

The integration of AI in project management is indeed a promising field that holds immense potential for driving productivity and innovation in the future. As we continue to explore the potentials of smart automation, it becomes crucial for organizations to invest in training their personnel to harness the power of this technology effectively.

However, it's important to admit that artificial intelligence is not meant to replace human managers. Their touch is still essential in guiding teams, handling interpersonal issues, and making strategic decisions.