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HOW AI AGENTS ARE CHANGING THE WAY WE WORK?

DID YOU KNOW?

- AI agents are moving AI from “What should I do?” to “Here’s the goal—go do it.”
- The real power of AI agents comes from their ability to connect AI models with tools, software, databases, and APIs.
- The future workplace may have humans managing teams of both people and AI agents.
- An AI agent can turn a multi-step workflow into a largely automated process—making automation more flexible than traditional rule-based software.



Vishwakarma Institute of Technology, Pune Welcome to the August 2026 Edition of the IT Bulletin

How AI Agents Are Changing the Way We Work

This edition explores AI Agents, an emerging technology that is transforming the way people and organizations approach work, productivity, and problem-solving. Unlike traditional AI tools that respond to individual prompts, AI agents can understand goals, make decisions, perform tasks, and work through multiple steps with minimal human intervention.

AI agents are being used across software development, business, education, cybersecurity, customer service, healthcare, and many other fields. They can automate repetitive tasks, analyze information, assist with decision-making, manage workflows, generate content, and collaborate with humans to complete complex tasks more efficiently.

By understanding how AI agents work, students can develop valuable skills in artificial intelligence, automation, prompt engineering, programming, and emerging technologies. As organizations increasingly adopt agent-based systems, learning to work alongside AI will become an important part of future careers.

Discover how AI agents are reshaping the workplace, improving productivity, and creating new possibilities for human-AI collaboration. Explore how this rapidly evolving technology is changing the skills we need and the way we work in the future.

WHAT ARE AI AGENTS?

Artificial intelligence has traditionally been used to answer questions, generate content, and assist users with individual tasks. AI agents take this interaction a step further by giving AI the ability to pursue a goal, make decisions, use external tools, and carry out multiple steps with limited human intervention. Rather than simply responding to instructions, an agent can determine what needs to be done, act on the available information, and adapt its approach as the task progresses. This shift from answering to acting is at the heart of the emerging agentic AI paradigm.

1. Understand the Goal

Interprets what the user wants to accomplish.

2. Plan the Task

Breaks the goal into smaller steps and decides what needs to be done.

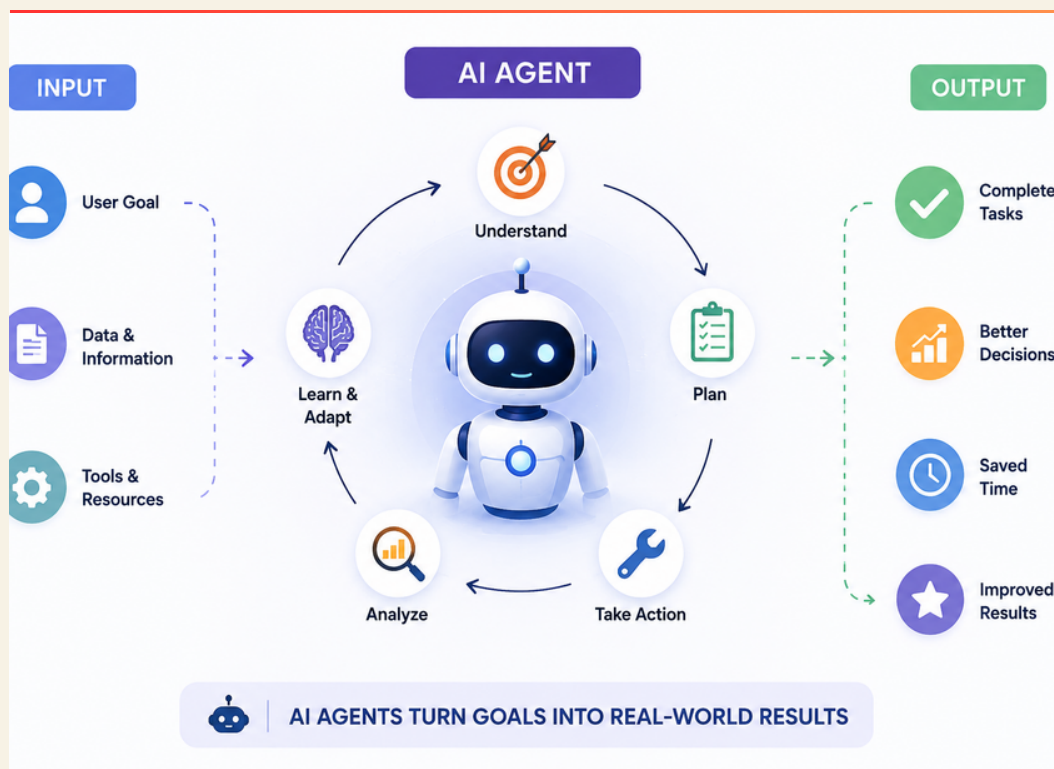
3. Use Tools & Take Action

Accesses tools such as search, APIs, databases, software, or other systems to perform tasks.

4. Observe & Adapt

Checks the results, responds to new information, and adjusts its approach when necessary.

Goal → Plan → Act → Observe → Adapt → Complete



THE CORE IDEA

An AI agent operates through a continuous cycle of understanding, planning, acting, and evaluating. It begins with a goal, determines the steps required to achieve it, uses the tools available to it, and evaluates the outcome before deciding what to do next. This allows an agent to handle tasks that involve multiple stages rather than producing a single, isolated response.

A.I. IN THE WORKPLACE

AI is changing the workplace, impacting how businesses work and how employees do their work. The technology is expected to significantly impact the market by transforming the labor market and changing the nature of work.

Organizations use AI in the workplace by using technologies like machine learning and natural language processing. That makes AI able to analyze data, recognize patterns, learn from the experience and adapt over time.



Earlier, AI was used mainly to answer questions or generate content but now it can do a lot more. They can understand an idea or a goal, plan the steps, use different tools and complete tasks with less help from humans.

AI can be used for data entry, scheduling meetings, preparing reports, analysing data and a lot more. This saves time and lets employees focus on more important things like problem solving, decision making and all.



WORKING ALONGSIDE DIGITAL TEAMMATES.

AI is becoming more like a digital teammate day by day. Instead of doing everything on their own, employees can give some tasks to AI and then check the results.

NEW SKILLS FOR A HUMAN-AI

WORKPLACE. To handle more routine work, employees have had to develop new skills. They should know when and how to give instructions to AI and how to check if the results given are correct or not.

Employees also need to know when humans need to be involved. Along with the technical knowledge of AI tools, skills like decision making and creativity are important. Human judgement is still very much necessary for maintaining quality and making ethical decisions.

AUTOMATING DAILY TASKS

The burden of repetitive daily chores is lifting thanks to AI agents. Rather than getting bogged down in endless data entry or inbox management, professionals are setting up intelligent workflows that handle the heavy lifting automatically behind the scenes.

From automatically sorting and prioritizing morning emails to generating daily performance reports and syncing calendars across departments, AI agents act as tireless personal assistants. This shift frees up valuable hours for deep work and creative problem-solving.



STREAMLINING DATA & SCHEDULING.

By integrating AI agents into existing productivity suites, routine tasks like transcribing meeting notes, updating CRM platforms, and scheduling follow-ups are executed flawlessly and instantly, requiring zero manual human intervention.



RECLAIMING YOUR WORKDAY.

Automation eliminates the busywork, allowing teams to focus on strategy and innovation.

MAXIMIZING EFFICIENCY WITH SMART WORKFLOWS.

Embracing daily automation requires a shift in mindset: moving from 'doing the work' to 'designing the workflow.' Employees must learn how to connect tools, set clear parameters, and create triggers for their AI agents. As these automated systems become more reliable, the focus of the modern worker will pivot entirely toward high-level strategy, complex problem solving, relationship building, and tasks that require genuine human empathy and judgment.

HOW AI AGENTS ARE CHANGING THE WAY WE WORK

AI agents are no longer just tools that wait for instructions — they're becoming collaborators in daily work. The shift isn't about AI replacing people, but about how tasks get divided between human judgment and machine execution.

In this new setup, employees delegate the repetitive, well-defined parts of a task to an AI agent, then step in to review, refine, and approve the final result before it goes out.



DELEGATING, NOT DISAPPEARING

Employees now hand off drafting, data pulls, and first-pass reports to AI agents, while keeping ownership of the final decision. The work shrinks, but the responsibility stays human.



A NEW KIND OF TEAMWORK

Teams increasingly treat AI agents like junior collaborators — giving clear instructions, checking their output, and correcting course when needed, rather than working entirely solo.

WHY OVERSIGHT STILL MATTERS

As agents take on more of the routine work, human oversight becomes the safeguard, not an afterthought. People are the ones who catch errors, weigh ethical trade-offs, and decide when an agent's output is good enough to use. This partnership works best when responsibilities are clear: agents handle speed and scale, humans handle judgment and accountability. Companies that get this balance right report smoother workflows and fewer costly mistakes.

ENHANCING PRODUCTIVITY WITH AI AGENTS

AI agents are taking over repetitive, time-consuming tasks — organizing information, managing schedules, analyzing data, and coordinating tools. This frees employees to focus on creativity, critical thinking, and judgment.

Agents work continuously, adapt to changing information, and handle multiple steps in a workflow. From reports to research to customer queries, they're becoming digital collaborators that boost team efficiency.



THE PRODUCTIVITY SHIFT

AI agents are increasingly being used to manage repetitive, multi-step workflows rather than simply answering individual prompts. By coordinating tasks across tools, retrieving information, and producing outputs with less manual intervention, they can reduce the time spent switching between routine processes. This allows employees to focus their attention on higher-value work such as decision-making, creativity, and problem-solving.



FROM TASKS TO WORKFLOWS

AI agents are beginning to connect individual tasks into complete workflows. Instead of requiring a separate instruction for every step, an agent can gather information, work with different tools, and move a task forward based on the results it receives. This makes AI useful not only for generating outputs, but for coordinating the series of actions required to accomplish a larger objective.

WORKING SMARTER, NOT JUST FASTER

AI agents can reduce the amount of time employees spend moving between applications, searching for information, preparing routine documents, and coordinating repetitive processes. By handling these smaller tasks as part of a larger workflow, agents can shorten the path from an initial request to a completed result. The productivity gain is therefore not simply about working faster; it is about giving people more time to concentrate on activities that require creativity, judgment, problem-solving, and decision-making. In this model, AI becomes a layer of support around human work, helping employees spend less time managing processes and more time producing meaningful outcomes.

IMPACT ON JOBS

As AI agents grow more capable, the focus is shifting from job loss to job transformation. Workers are adapting to a landscape where AI handles routine execution, while roles evolve around it.

AI agents aren't replacing workers so much as elevating them — shifting people from manual execution to supervising, directing, and optimizing these new digital workforces.



THE RISE OF AI OVERSIGHT.

Companies are creating entirely new positions dedicated to managing AI systems. Employees are being trained to delegate effectively, audit AI-generated outputs for accuracy, and ensure ethical compliance in automated decision-making processes.



THRIVING IN THE NEW ECONOMY.

Adapting to the AI revolution means embracing lifelong learning and focusing on uniquely human skills like empathy and complex strategy.

SHIFTING FROM EXECUTION TO STRATEGY.

While AI agents will disrupt routine administrative jobs, they are also creating massive demand for new competencies. The future job market will favor individuals who can manage and orchestrate AI systems. As machines take over repetitive tasks, uniquely human traits—like emotional intelligence, creative problem-solving, and ethical judgment—will become highly prized. Workers who proactively embrace AI will become more productive and indispensable than ever.

NEW SKILLS FOR THE AI ERA

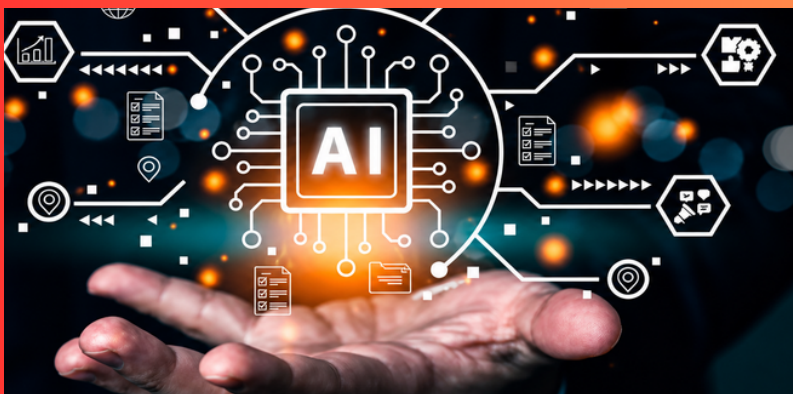
AI has moved beyond just simple chatbots. They can now plan tasks, use software tools and complete work with less supervision. They are being used in different areas like research, coding and scheduling.

Employees can hand over all the daily, repetitive things such as data entry, making reports and organising data to AI. This lets them spend more time on important work instead of doing every small thing manually.



WORKING TOGETHER WITH AI

AI is becoming more like a teammate in the workplace. Employees can use AI to finish tasks but they still have to review and correct its work. This makes working with AI a team skill instead of being something that can be done alone.



SKILLS THAT MATTER MORE

As AI gets more daily tasks, employees need to develop more skills like clear communication, problem solving and creative thinking. They should also know how to give proper instructions to it.

HUMAN JUDGEMENT STILL MATERS

AI may be able to work faster but it cannot completely replace human judgement. People are required to make important decisions, identify mistakes and have to deal with ethical issues. Hence, the future workplace will need to find a proper balance between AI and human skills.

RISKS & CHALLENGES

AI agents expand the scope of operational risk because they do not simply generate outputs, but instead execute actions inside live systems. As their autonomy and authority increase, so does their potential impact on organizational security and data integrity.

Because AI agents often act on a user's behalf, they typically hold higher levels of system access. If something goes wrong, this privileged access can inadvertently expose personal information or sensitive business data in unintended ways.



ADDRESSING SECURITY & PRIVACY VULNERABILITIES.

Without strict configuration, AI agents integrating into enterprise systems risk unauthorized access and unintended tool invocation. Additionally, attackers can exploit prompt injection and memory poisoning to maliciously manipulate the agent's behavior.



THE GOVERNANCE IMPERATIVE.

Technical controls prevent immediate organizational failures, while governance ensures long-term accountability.

ESTABLISHING ACCOUNTABILITY & OVERSIGHT.

The very autonomy that makes AI agents powerful is precisely what makes them risky. To mitigate these challenges, organizations must standardize governance before scaling and build a common infrastructure with strict guardrails. Crucially, when agents act autonomously, decision authority can become distributed across different components, leading to a diffusion of accountability. Leaders must maintain continuous observability to track conversations, tool use, and the data exchanged between agents, ensuring that a human role remains firmly accountable for approving deployments and monitoring ongoing ethical compliance.

THE FUTURE OF WORK

As AI becomes commonplace in everyday life, the workplace will start to evolve. AI will no longer just respond to a question, but can now assist in research, coding, planning and other tasks. This will affect the time spent by employees.

The most significant challenge will be to eliminate the repetitive, same work. AI can handle work that requires extensive time but doesn't necessarily require deep thinking. This allows employees to have more time to think and to solve problems.



HUMANS TAKE THE LEAD

There is a need for humans to be involved even after the task is done by the AI. Employees need to determine whether the result is correct or incorrect, whether changes should be made and what, and whether the information is really useful or not.



THE HUMAN + AI WORKPLACE

This is primarily going to be a workplace that is made up of humans and AI. Human creativity, communication and judgement can be complemented by AI's ability to enhance speed, process vast quantities of data, and complete repetitive tasks. It is not a competition with AI, it is adapting and using AI efficiently. Those employees who know how to use AI will be better equipped for the changing work world.

JOBS WILL CHANGE, NOT JUST DISAPPEAR

AI doesn't just take away jobs, it could transform many of the ones we have today. There may be some tasks that are automated, and there are some new tasks that involve managing, monitoring and improving AI systems.



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