

2025

Al Skills Report

Executive summary

Al skills are now a baseline requirement for tech professionals. 95% of organizations check for these skills when hiring, with 70% considering them "mandatory" or "highly preferred." Teams increasingly see these skills as mission-critical—two thirds of companies have had to abandon Al adoption projects due to a lack of Al skills among staff.

However, how many professionals are actually skilled in Al, and how proficient are they, really? To answer these questions, we surveyed 1,200 executives and IT professionals across the U.S. and the U.K.

Our main finding? The majority of executives and employees exaggerate their Al knowledge, and likely overestimate the Al skills they actually have.

In this report, you'll get a true look into the state of Al skills across the industry, as well as how corporate Al adoption is impacting career opportunities, job stability, productivity, and more.

Main takeaways

079%

Executives and IT professionals who fake their Al knowledge.

Organizations that use Al skills as a hiring factor.

Organizations that see using generative AI as "lazy."

Companies likely to replace or outsource jobs if staff don't have the right Al skills.

Organizations who have had to abandon Al projects due to a lack of Al skills among staff.

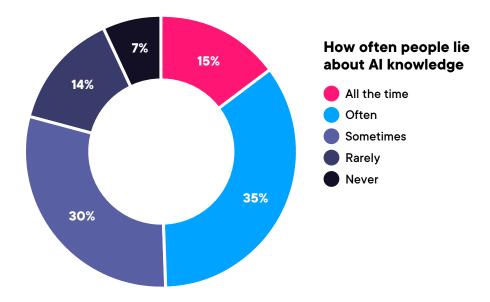
Executives and IT professionals who say using AI has made their lives easier.

Al skills are misunderstood and outright faked

If you're anxious that everyone seems to know more about Al than you do, here's the good news: 79% of people admit to pretending to know more about AI than they actually do. Your boss is likely to be the biggest faker, with 91% of C-suite executives admitting to exaggerating their Al knowledge.

On the other hand, they're not likely to stay ignorant for long. Over half of companies are offering dedicated training to upskill staff in Al. That means they're pretending for now, but it won't be long before they're truly knowledgeable on the subject.

C-suite executives admit to exaggerating their Al knowledge.



Stigma around AI and hidden AI use are common

Despite strong demand for staff with AI skills, 61% of respondents said that using generative AI tools for work is seen as "lazy." C-suite executives have witnessed this perception more often, with 73% working at companies where this idea is prevalent.

With this stigma, workers often use are using Al tools for work projects without giving credit or acknowledgement for its use. Two in three people have noticed coworkers use Al without admitting it, while one in three report hidden Al use being widespread in their workplace.

Why does this matter? As an individual, it means you're compared to colleagues that suddenly have a higher output, and you may be expected to keep pace. It also gives a mistaken impression that nobody is using Al, so there is no urgency to utilize it, when in reality colleagues may be getting Al assistance regularly.

For organizations, this hidden use can also result in Shadow Al: employees using unsanctioned and potentially unsafe Al tools outside of the IT team's watch. This can result in:

- Security vulnerabilities from unsecured data access to data leaks.
- Information integrity being compromised by unvetted Al products.
- Compliance challenges from accidental sharing of sensitive data with third-party Al platforms without company permission or knowledge.
- Cybersecurity threats from unapproved or unvetted AI tools.
- Inconsistent quality from AI outputs that can harm customer relations or employee reputations.

Noticed coworkers use Al without admitting it.

Have noticed many incidents of

uncredited Al use.

The Al skills assessment gap: "Everyone else lacks Al skills, but not me"

Nine in ten IT employees and executives said they had all the skills needed to integrate AI tools into their daily roles. However, when asked about their peers, nearly the same number said a lack of AI skills among their colleagues was the biggest blocker for Al adoption, and two thirds said their organization had to abandon an Al project due to lack of skilled staff.

One potential explanation for this gap is the Dunning-Kruger effect—a wellresearched phenomenon where a person's lack of knowledge and skill in a specific area causes them to greatly overestimate their competence.

If this is the case, then it's likely that a large percentage of the workforce believe they have greater Al skills than they do because they lack enough knowledge about AI to "know what they don't know."

The solution? Confirm your own skills and those of your staff, especially prior to taking on a new Al adoption project.

The Al self-assessment paradox

Confident they have the necessary skills to integrate Al tools in their role.

Believe Al projects are blocked by a lack of Al skills among everyone else.

Organizations who have had to abandon Al projects due to a lack of Al skills among staff.

Organizations who have abandoned multiple Al initiatives due to a lack of skilled staff.

Nearly four in ten companies likely doing dirty deeds with Al

When there isn't enough AI education in a company, there can be another negative consequence: unethical AI use. Unethical AI use can pose a significant business risk, leading to danger to humans, breaches of consumer privacy, illegal Al use, and brand damage.

Thirty-nine percent of C-suite executives say they probably or definitely have shady Al activity going on at their company. It's worth noting that identifying unethical Al use requires a certain level of Al knowledge, meaning much of this activity may fall under the radar or occur unintentionally.

In November 2024, data from Pluralsight's learning platform revealed that while 45,000 people wanted to learn about Al, only 1.8% actively searched how to adopt AI responsibly.

C-suite execs think they have shady Al activity going on.

Learners actively search how to adopt Al responsibly.

In 2025, Al skills are directly tied to job security

More jobs are created than lost due to Al. Both employees and employers widely see AI skills as essential.

Seven out of ten companies now consider AI skills as necessary or strongly desired, with only 5% considering it "not a factor" when hiring. In the U.S. and U.K., the majority of companies said they were "somewhat" or "extremely likely" to replace or outsource talent to successfully deploy Al initiatives, with only 2% ruling out this possibility.

This drive comes from the fact that 86% of organizations have plans to adopt Al tools, or have already adopted them. Even among the small fraction of companies with no plans for Al, many still allow employees to use AI tools on their own. Among all the companies surveyed, only 5% of companies have completely banned Al usage.

Perhaps it's unsurprising, then, that among executives and tech professionals, there is near unanimous agreement that having Al skills is the "best way" to ensure job security.

Al's role in job security

Companies that mandate Al skills in new roles.

95%

Executives and tech professionals who say Al skills are the top way to ensure job security.

Companies that have formally adopted AI tools.

Companies that give strong preference to job candidates with Al skills.

Companies that are planning to formally adopt AI tools in the future.

PLURALSIGHT SLT

Nine out of ten people fear companies replacing jobs with AI, despite companies creating more **Al-related jobs**

Whether you're an executive or tech professional, the fear of having an organization replace your role with an Al runs deep. When it comes to direct replacement, the U.K. workforce is slightly more worried than the US (93% vs 87%).

Most executives and tech professionals believe the skills they use in their daily role will "become obsolete very quickly" because of the same tasks being possible with AI, with 35% stating this is a "strong" possibility.

However, the reality is that nearly half of companies have actually added Al-related jobs. This research matches predictions by the World Economic Forum that companies will create 78 million more jobs due to Al than they eliminate by 2030.

370%

Believe their job is at-risk due to Al.

Feel being replaced by AI is "extremely" or "very" likely.

91%

Believe skills will quickly become obsolete because of Al.

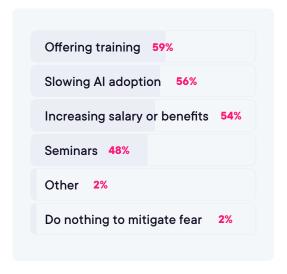
However...

Confident they have the necessary skills to integrate Al tools in their role.

Upskilling is the #1 solution being used by companies to combat Al-related job anxiety

The majority of organizations are training their existing employees to ensure successful Al adoption, rather than firing and replacing them. And despite most companies in 2025 having some sort of Al initiative in place, most have decided to slow adoption in order to minimize disruption.

Perhaps the best bit of news for tech professionals is that over half of organizations report they are increasing salary or benefits in response to organizational Al adoption. Only a small percentage (2%) report doing nothing at all to ease concerns.



The departments expecting the most Al-driven growth in the next five years Marketing 48% Content creation 46% Analytics 45% Sales 41% Billing 40%



HR 35%

The entire tech sector is experimenting with AI, with positive results

In 2025, it's hard to find a domain that isn't using AI to augment their existing workloads. And among those who've used it, eight in ten report AI has made their life easier.

Cybersecurity is the most common use case, followed by data, likely because these fields have historically used Al long before generative AI entered the mainstream. However, developers, customer service providers, and anyone creating content have also entered these ranks.

Teams are also using AI to reduce the burden of cloud services management, especially as major cloud providers strive to incorporate AI tools into their services (such as Amazon Q). The wider trend toward AI task automation will likely free up individuals to focus on strategy.

More than half of companies (53%) are currently focused on experimentation over seeking a return on investment. Leaders are more inclined to favor that slow roll, with 67% of C-suite executives happy to investigate use cases over profits.

Companies focused

on experimentation over ROI.

Executives investigating use cases over maximizing profit.

Where companies are currently using Al



Al skills individuals and organizations are using right now Al cloud-services management 39% Machine learning experience 36% Data modeling and analysis 38% Managing data libraries and software frameworks 31% Ethical AI and bias mitigation 37% Retrieval-augmented generation (RAG) 29% Writing Al prompts 36% Natural-language processing (NLP) 28% Using AI to automate tasks 36%

Companies using AI are seeing the most value across customer support, work quality, and scalability

Eight in ten executives and IT professionals report using Al has made their life easier. Enhanced customer experience is the biggest benefit, followed by improved work quality, scalability, and streamlined workflow.



Among tech professionals, ChatGPT dominates generative AI tool use, but has strong competition

ChatGPT is used by over half of all tech professionals, likely due to its ease of use and widespread applicability. However, its dominance in the tech sector is hardly unchallenged, with Microsoft Copilot and Google's Gemini also seeing widespread adoption. For tech professionals, this means becoming proficient with any of these is a good career investment.

GitHub Copilot, a dedicated AI code completion and automatic programming tool, remains the most popular industry-specific GenAl product.

Most popular GenAl tools

DALL-E

How to solve the problems of Al fakery and build AI skills for success

The data shows that it's common to misrepresent your own Al proficiency, whether intentionally or by accident, and that these skills are essential for career stability and project success. Thankfully, identifying or fixing your own skill gaps—or those of others in your organization—is relatively straightforward, using the right tools.

First, measure skill proficiency with expertcreated assessments, not self-reporting

Many organizations measure the success of their Al upskilling initiatives with self-reporting. This is an inherently flawed process, because it opens the door to all the misrepresentation issues mentioned earlier. Even when you're doing it for your own benefit, it's still hard to gauge yourself against other professionals (who may be lying or hiding their Al use) or "know what you don't know" when it comes to Al.

The best way to solve this is to take an AI skill assessment created by an actual industry expert, which ranks you against other professionals. This has the following benefits:

- It shows you where your peers really are, with none of the fakery.
- It exposes any knowledge gaps you might have, so you can fix them.
- It gives you a tool you can use to track your learning progress.

These tools also tend to have learning recommendations for the areas you need improvement in, saving you time in searching for these learning materials.

If you're a leader, these tools can help you make sure key staff really have mission-critical Al knowledge prior to commencing your project, so you're not set up to fail.

Fully embrace any learning opportunities your organization provides—or push for these programs

The silver lining of the majority of organizations considering Al skills to be essential is that 59% of companies are offering Al training to upskill employees, and 48% are offering seminars. Embrace these opportunities to shore up your skills, even if you feel you're Al literate.

If your organization is not actively providing this training, ask if they are willing to pay for it upon request. Alternatively, you may need to invest in your own learning and see this as something you will get a return on in terms of job security and opening up future opportunities.

Companies offering Al training to upskill

employees.

Offering seminars to educate employees on Al.

Take structured AI courses by verified industry experts

Company-led Al training may not give you the depth of knowledge and skills that you need, especially as a tech professional. The training may cover generative Al use, such as ChatGPT, but not dive into role-specific uses, such as code assistance, data modelling, task automation, or using AI with cloud services.

In these scenarios, it's best to use a tech skills development platform, which offers more substantial, on-demand learning options, as well as tools to help test and develop your Al skills. You also want to make sure the content on this platform is both created by an expert and vetted thoroughly by the platform itself.

Get hands-on with your learning (in a safe environment)

Studies show that most people learn best when they're able to get handson experience. Getting hands-on with AI tools is a great way to reinforce what you've learned and see if there's anything else you can study up on.

While this approach is fine with safer, generative AI tools, practicing with more advanced AI applications can come with an element of risk. Specifically, if you're toying with models, particularly in cloud-based environments, you can potentially rack up unwanted bills. You also want to experiment in a space where you won't do any damage to anything important.

Sandbox environments and hands-on labs are the best way to learn by doing and get familiar with more advanced applications, while significantly reducing this risk.

Once you've learned about the latest in Al, keep checking what's changed

Al moves at a breakneck pace, and just because you learned about the latest Al tool a year ago does not mean that knowledge is still current. New models and applications regularly hit the market, and regular research helps keep your skills current.

Testing and training in AI is your key to success in 2025

Al skills are now a baseline requirement for almost every tech role, with 95% of organizations viewing them as a hiring factor. However, employees and executives often misrepresent, misunderstand, and sometimes outright fake AI skills. And without testing, it's possible to overestimate your own Al skills or those of others.

095%

Organizations consider Al skills as a hiring factor.

For organizations, lack of Al skills can make or break Al adoption, which, when successfully in place, results in improved work quality, scalability, productivity, and cost savings.

As a professional or as a leader, it's vital to check your own Al knowledge and that of your team using independent skill assessments. Successful teams will make Al upskilling a professional priority, using structured, expert-led courses, handson learning opportunities, and regular research to see what's changed in the Al landscape.

D PLURALSIGHT DLT



On-demand learning, skill assessments, labs and sandboxes

Pluralsight is a tech skills development platform that offers all of the tools you need to upskill in Al:

- Over 6,500+ tech courses, all authored and vetted by industry experts—we admit authors at a 6% acceptance rate, making sure you have the most authoritative, reliable learning materials.
- Dedicated Al learning pathways for beginners, practitioners, and experts.
- Skill and Role IQ tests that allow you to test your knowledge against others, with customized course recommendations.
- Expert-created, hands-on labs and sandbox environments for practical learning.
- For organizations, partnership services that can provide tailored, team-based live learning.

Build your Al skills with Pluralsight >

How we conducted our research

For this report, we partnered with Wakefield Research to understand decision makers' and practitioners' perspectives on AI skills, uncover current and future trends, and provide individuals and leaders with the actionable insights they need to achieve success.

We surveyed 1,200 executives (CEOs, CFOs, CIOs, and other VP-level or higher who report to the C-suite) and practitioners (employees working in technology, IT, cloud, cybersecurity, and similar areas) across the U.S. and the U.K.

Position		
Executive	600	50%
IT Professionals	600	50%

Region		
United States	700	58%
United Kingdom	500	42%