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# Enterprise GenAl Security Report 2025

Real-life data on how enterprise users consume GenAl tools, who uses them, and where the security blind spots of 'shadow Al'



# Introduction

Al has taken the world by storm.

Or has it?

Because once you move past the big, bombastic headlines and the marketing spin, there is surprisingly little hard data on how AI is actually used, especially by enterprise users.

This research is meant to do exactly that. It provides tangible statistics on how enterprise users consume AI in the workplace based on real-life data and telemetry collected from LayerX Security's customer base.

# What's In This Report

This report covers several areas relevant to GenAl and Al application usage, including:

- How GenAl is used in organizations
- Who uses GenAl and Al SaaS applications in the organization
- How employees connect to and access GenAl tools
- How corporate data is shared with LLMs
- The security risks posed by GenAl browser extensions

All the findings are based on telemetry collected from LayerX's unique data set.

# What Makes LayerX's Data Unique

There is no shortage of reports and surveys in the market, but what makes LayerX's data unique is where we collect our data and who we collect it from.

The LayerX Security solution is deployed directly within users' web browsers, meaning that LayerX has full visibility to all user activity and data that passes through the browser. This allows us comprehensive insights on the usage of GenAl tools and Al-enabled SaaS applications.

Moreover, LayerX's customer base is comprised almost entirely of medium and large enterprises, meaning that the insights we collect are specific to enterprises and enterprise users.

# **Executive Summary**

# How can you protect against what you don't know about?



#### **Hidden Access to GenAl Tools**

Nearly 90% of logins to Al SaaS applications are done with either personal accounts, or corporate accounts not backed by SSO. Such logins don't go through organizational identity and access management systems, leaving organizations blind to their existence. Moreover, any connection to Al tools via a personal account will not be subject to organizational privacy and data controls by the LLM tool.



#### The Long Tail of 'Shadow' Al

The top AI tools dominate over 90% of AI application usage, but once you move past the handful of best-known AI tools, there is a long tail of little-known and invisible 'shadow' AI tools that fly under the radar. Most organizations do no have visibility as to which tools are used in their organizations, by whom, or where they need to place controls.

#3

#### Al Browser Extensions are a 'Side Door' for Data Leakage

While many organizations already deploy (or are at least considering) dedicated Al security solutions, Al-enabled browser extensions often represent an overlooked 'side door' through which data can leak to GenAl tools without going through inspected web channels, and without the organization being aware of this data transfer.

## A CISO's Framework to Security GenAl Tools

Based on these findings, we suggest CISOs and security managers implement a number of high level recommendations to cover their bases:

#### Audit All GenAl Activity:

Since so much of employees' Al activity is hidden, it's crucial for the organization to audit all Al activity at the endpoint level, to make sure they have visibility to it all.

#### Proactively Educate Employees:

Since AI is a new technology, many users are still oblivious to its associated data risks. This is why it's critical to proactively educate users and alert them to potential AI risks, as they are taking place.

## Apply Risk-Based Restrictions:

While some organizations try to outright ban all Al usage, this is not a long-term solution in a world that is becoming increasingly Al-driven. This is why it's critical to apply security restrictions that are adaptive and contextual, to enable employees to use Al securely, without sacrificing productivity.

# **Key Findings**

#1

Despite organizational security policies, organizations have no visibility into 89% of Al usage in the organization. Over 70% of connections to GenAl tools such as ChatGPT are done with users' personal accounts, even on enterprise devices. Even among logins using corporate accounts, 58% of connections are done without SSO. This means that nearly 90% of logins to GenAl tools are invisible to organizational identity access and control systems, and security and IT teams have no idea who is using GenAl tools and what data is being exposed inside GenAl conversations.

#2

Most GenAl users are casual, and may not be fully aware of the risks of GenAl data exposure. Only about 15% of enterprise employees use it on a weekly basis, and while a small percentage of users who use it extensively, most users are casual users. While some readers might see this statistic as an indication that there is no problem, we see it as a gaping hole through which users may inadvertently leak data. Exactly because most users use it casually, organizations need to ensure that their users are educated and aware of the risks.

#3

Browser extensions are the hidden threat of GenAl data leakage. About 20% of users have a GenAl browser extension installed on their computer, which can bypass Al access filters on network solutions such as Secure Web Gateways (SWGs), thereby allowing exposure of data of organizational data to remote LLMs without the organization knowing or being able to track it.



Over 90% Al usage is concentrated in large, well-known apps, but there is a long tail of 'shadow' Al applications. ChatGPT alone accounts for over 50% of enterprise usage, and the top 5 Al SaaS apps for over 85% of Al usage. However, outside of the handful of well-known apps there is a long tail of lesser-used Al tools that fly under the radar. As a result, security manages don't know which other Al apps are used, and where to put controls.



A small number of users expose large volumes of data. While text input is the standard form of interaction with GenAl tools, copy/paste and file upload are the channels through which data can leak at scale. Approximately 18% of users paste data to GenAl tools, and about 50% of that is company information.



# GenAl Usage is Widespread, But Still Mostly Casual

14.5%

Of enterprise users access GenAl tools on a weekly basis

**77%** 

Of user access to online LLM tools is to ChatGPT

**39%** 

Of enterprise users who use GenAl tools regularly are software developers



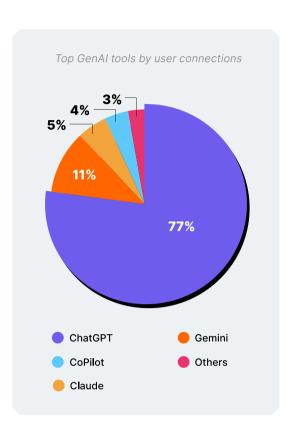
# **The Finding**

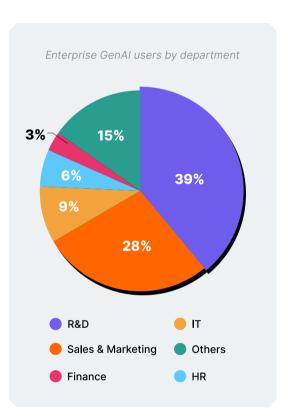
We began our analysis by looking at the top Generative AI tools such as ChatGPT, Gemini, Copilot and others. The data shows that approximately 14.5%, or about one out of seven users, use these GenAI tools on a weekly basis.

Looking at the most-used GenAl tools, OpenAl's ChatGPT is the undisputed champion, with 77% of activity, far ahead of Google's Gemini at 11%. After that, there is a minor surprise with Anthropic's Claude Al engine coming ahead of Microsoft Copilot, with 5% and 4%, respectively. Other LLMs make up the rest, with about 3% combined.

With regards to usage patterns, the data shows a wide disparity between heavy and casual users. Whereas the top 5% of 'heaviest' GenAl users access GenAl tools, on average, more than 4 times a day, the bottom 50% of users access them only 1-2 times a month. This finding indicates that while GenAl has made large inroads within a short time, most users are still casual, occasional users and that Al usage is not (yet?) a part of their day-to-day usage.

Software developers are the largest constituency of active users. Among enterprise users, 39% of users who use GenAl tools belong to R&D, 28% belong to Sales and Marketing. IT, HR, and Finance users make up single digits only. This finding is consistent with market trends of Al uses (and available tools) for software development and marketers.







# **Analysis**

The findings indicate that while GenAl usage is widespread, it is not (yet) ubiquitous in organizations. Nonetheless, considering the short period since ChatGPT first came into our lives in late 2022, these are significant inroads that are only expected to increase in the coming years.

Evidence of the disparity in usage between casual and heavy users could be seen in the usage patterns where the bottom 50% of users (and in all likelihood, much more than that) used GenAl tools only occasionally, whereas the top 5% of heavy users used it all the time. We expect this 'tip' of heavy users to increase with time, but for now, it shows the 'chasm' that most users have not yet crossed.

There was little surprise in the distribution of the top GenAl users of software developers, marketers and salespeople, as those are the organizational users that probably benefit the most for the 'generative' aspects of GenAl. However, as uses of GenAl expand, we expect those results to even-off.

Finally, it was no surprise that ChatGPT was the leader in terms of usage, but we were surprised to see the extent of the lead, particularly over established enterprise players such as Google and Microsoft. Whether it is first mover advantage, brand recognition, or better technology – OpenAl created a lead that will be difficult to erase in the foreseeable future.

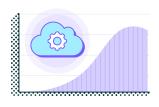
foreseeable future.

Of course, these findings may (and will) vary among organizations, depending on the makeup of their workforce and specific line of work. However, it highlights the need for organizations to track usage of GenAl among their employees to fully understand who's

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using it, which tools they are using, and to what end.



# The Long Tail of Al SaaS **Applications**

51.7%

Of all Al application access is to ChatGPT only 86%

Of all Al application access is to the top 5 Al apps

<1%

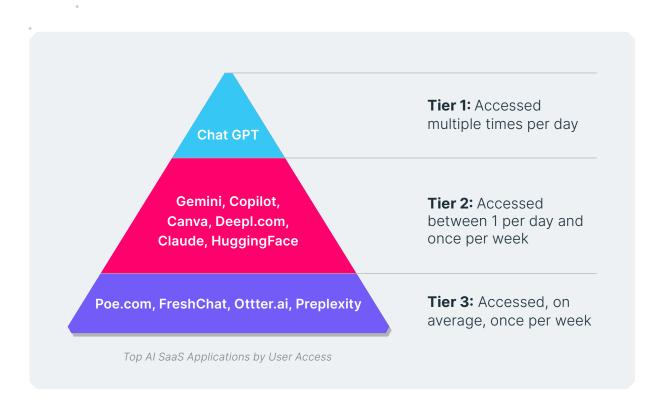
Of Al application access is to the bottom 50 apps



# **The Finding**

Next, we expanded our analysis to look at not just GenAl tools and LLMs, but also at Alenabled SaaS applications that are classified as 'Ai applications.'

In terms of the most commonly used Al applications, ChatGPT is far-and-away the most commonly used Al application. Among Al tool users, ChatGPT was accessed, on average, more than once per day.



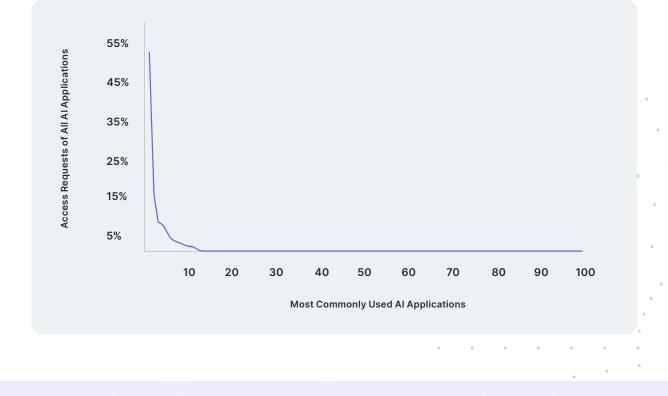
I ne next tier includes the other top GenAl tools, including Gemini, Claude, and Copilot, which were accessed, on average between once a day and once a week. Other Al applications in this tier include Deepl.com, Canva, and Al application marketplace HuggingFace.

The tier after that includes other well-known Al tools such as Poe.com, Otter.ai, FreshChat, and Perplexity. These tools were accessed, on average, once per week.

Of the top 100 most popular Al applications, ChatGPT accounted for 51.7% of all Al website requests. The top 5 applications accounted for over 86% of Al usage, but the bottom 50 accounted for less than 1% of requests.

These findings are an indication both of the immense popularity of ChatGPT, as well as

of the 'long-tail' of Al applications, which extends beyond the top four or five Al tools that are top-of-mind to most consumers.





# **Analysis**

But what happens when you get outside of the top 10 Al tools?

The findings show that there is an immense cliff between the handful of top tools that get the overwhelming majority of Al traffic and the rest of the pack. However, as more

and more SaaS applications become Al-powered (and now ones pop-up), this leads to a long tail of 'shadow Al' applications that probably have few users and fly under the radar of corporate IT and security teams.

This means that for most organizations, apart from the few Al tools that jump to everybody's mind, there is little visibility or control over what Al tools are used in the organization, who's using them, and what data goes into them.

From an organizational security point of view, security managers need to make sure they have visibility into these 'shadow Al' applications and control over their usage.

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# Most Workplace Al Usage is Invisible to Organizations

71.6%

Of access to GenAl tools is done using non-corporate accounts

58.7%

Of access to GenAl tools using corporate accounts is done without SSO 11.7%

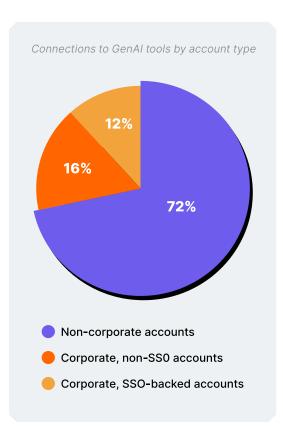
Of all Al application access is done using corporate accounts backed by SSO



# **The Finding**

The data shows that the overwhelming majority of connections to GenAl tools are carried out using non-corporate logins. Over 71.6% of requests to GenAl tools were done using personal accounts.

Of the 28.4% of logins done using corporate accounts, 58.7% (and 16.6% of total logins) were not backed by Single Sign On (SSO). This means that only 11.7% of all logins to GenAl applications adhered to the gold standard of using a corporate account backed by SSO. The mirror image of that finding is that nearly 90% of web-based GenAl usage is invisible to the organization.





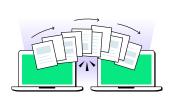
# **Analysis**

Organizations use Single Sign On (SSO) so that corporate SaaS logins pass through the organizational IdP, giving the organization visibility into where these corporate logins are used, and providing them a measure of control (at least to the extent that they can block access to unwanted websites or SaaS applications).

However, the findings show that connections to GenAl tools by employees on organizational devices are overwhelmingly done using non-corporate (i.e., personal) accounts.

When users are connecting to GenAl tools via their personal (and typically free) accounts, they are not subject to data controls applied to corporate accounts, such as private tenants, not using data for LLM training, etc. As a result, any company information shared on such public infrastructure is compromised.

Moreover, even employees using corporate accounts do not usually use SSO. As a result, organizations have no idea of these connections. This leaves organizations blind to 'shadow Al' applications and the unsanctioned sharing of corporate information on Al tools.



# A Small Number of Users Share Large Amounts of Data

18%

Of enterprise users paste information to GenAl tools

1%

Of enterprise users upload files to GenAl tools

50%

Of paste activity to GenAl includes corporate data



# **The Finding**

The data shows that nearly 18% of users paste data to GenAl tools, but less than 1% upload files to GenAl tools.

However, the data also indicates that users who submit data to GenAl tools via paste and file upload do so relatively frequently: among users who paste data to GenAl tools, on average, do so 6.8 times per day, and over 50% of those activities (3.8 events per day, on average) include data that could be classified as corporate information.

Although a relatively small number of users upload files to GenAl tools, those who do so are also fairly active and upload an average of 3.7 files per day.



# **Analysis**

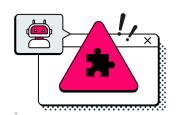
Text input is the standard method of interaction with GenAl tools. Virtually 100% of users input information that way into LLMs. However, that approach is typically limited in the amount of sensitive information that can be exposed since there is usually a limit to how much (and how long) a user is willing to type.

The bigger data risk, however, comes from copy/paste of information and file upload. Those are the methods in which large amounts of company information can be exposed on GenAl tools with a few keystrokes.

Approximately one in five enterprise users paste information to GenAl tools. While there is no information on where this information comes from, it makes sense that much of it is from other data sources and contains larger amounts of data (otherwise, it would have been easier to type it manually). It is no surprise, therefore, that about 50% of pasted information contained information that could be classified as corporate information.

Similarly, about 1% of users upload files to GenAl tools. While we did not review the contents of these files for this research, it makes sense that this was done for data analysis of large quantities of data, which could put this information at risk if this activity is not properly monitored and controlled.

Therefore, organizations should track user connections to GenAl tools and their activities within those tools, as well as monitor the data shared with online LLMs.



# A GenAl Problem is Also a Browser Extension Problem

20%

Of enterprise users have installed a GenAl-enabled browser extensions 58%

Of GenAl browser extensions have 'High' or 'Critical' permission scope 5.6%

Of GenAl browser extensions are classified as 'malicious'

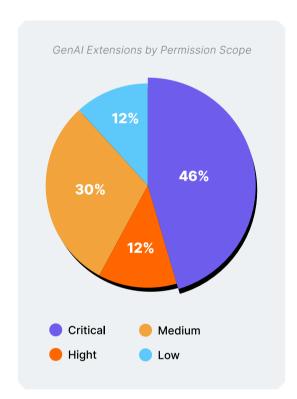


# **The Finding**

The research shows that 20.63% of all users have installed an Al-enabled browser extension. Of those who have such an extension installed, 45% have more than one such extension.

Of GenAl browser extensions, 58% have a permission scope classified as 'high' or 'critical,' compared to 66.6% of all extensions.

Finally, 5.6% of AI extensions are classified as 'malicious' and can be used to steal data.





# **Analysis**

Browser extensions are the hidden AI threat most organizations don't know about.

While most of the attention is focused – understandably – on web access to LLMs and GenAl tools, Al-enabled browser extensions present a 'side door' through which data can leak out, even if the traditional web channels are blocked.

Moreover, the research shows that most Al-enabled browser extensions are granted extensive permissions to sensitive browsing information such as cookies, browsing information, web page contents, user identities, and more. This is critical since over 5% of Al-enabled browser extensions are classified as malicious.

The implication for organizations is that they need to see browser extension security as a facet of GenAl security and apply security controls over them, just as they would for web access to GenAl sites.

# Recommendations



#### Map Al Usage in the Organization

All organizations use GenAl, and most users have used GenAl tools. However, not all GenAl usage is the same: some users use it more than others, and for different purposes. This means that mapping GenAl usage in the organization is a critical first step in understanding your company's risk profile and building an effective remediation strategy.



#### **Restrict Personal Accounts and Enforce SSO**

Most GenAl tools now offer corporate accounts, with built-in security measures not found in personal accounts. While specific capabilities between providers, key features typically include private organizational tenant, not shared with other users of the service, not using data for LLM training, and more. However, these benefits depend on users using such business accounts instead of their personal GenAl accounts.



#### **Prompt Users**

Security managers often need to strike a delicate balance between security and productivity. This is especially true for GenAl, which many employees use legitimately and effectively. One potent actionable step to limit the risk of GenAl usage it to prompt users with a reminder message when they access GenAl tools. Such a warning message will not restrict users' activities, but it will remind them of organizational policy, risks, and responsible data usage.



### **Block Sensitive Information Upload**

While many organizations allow uploading information to GenAl for legitimate productivity uses, in some cases, restricting the type of data or manner of sharing with GenAl tools may be unavoidable. Therefore, restricting the manner in which data can be inputted into GenAl tools (for example, blocking the pasting of text or blocking file upload) or applying restrictions specifically on data that has been classified as sensitive are effective ways to prevent GenAl data leakage without having to fully block Al tools.



## Control GenAl Browser Extensions

Finally, one primary way users often consume GenAl tools is via browser extensions. Such extensions are installed in the browser, automatically tracking and analyzing user activity. While some Al extensions are from reputable publishers and have legitimate uses, for many such extensions, users often don't know who is really standing behind them and what access they have. This is why restricting GenAl browser extensions is crucial in preventing the leakage of sensitive organizational data.

# How LayerX Helps Prevent Al Data Leakage

LayerX is an all-in-one, agentless security platform that protects organizations against GenAl data leakage, detects and enforces controls over 'shadow' Al apps, and enforces access controls over GenAl usage, with no impact on the user experience.

LayerX natively integrates with any browser, turning it into the most secure and manageable workspace, with no impact on the user experience.

Key LayerX capabilities that help prevent GenAl data leakage:

- Full discovery and visibility into which GenAl websites and SaaS applications are being used in the organizations
- Which users are using each GenAl tool, and whether they are logging in to it using corporate or personal accounts
- Track what data is uploaded to GenAl tools and how it is inputted (e.g., text input, copy/paste, file upload, etc.).
- Easy-to-use policy wizard that enables security administrators to create finely tuned policies to control GenAl usage (for example, preventing developers from pasting code into GenAl prompts)
- Robust enforcement capabilities that don't just fully allow or completely block GenAl tools, but offer a range of enforcement capabilities, such as:
  - Monitor only
  - Warn user
  - Prevent with an option for the user to bypass by submitting justification
  - Prevent with no option to overrule
- Automatically classify Al browser extensions, assign
- And more!

These capabilities allow security managers to map GenAl usage in the organization, educate users on security risks, enforce usage only of corporate accounts in GenAl tools, prevent uploading sensitive data to GenAl applications, and block risky Al extensions.

To see how we can help you prevent GenAl data leakage without sacrificing productivity, go to <a href="http://www.layerxsecurity.com">http://www.layerxsecurity.com</a> and book a demo today!