# Sema4.ai

# Turn AI into action

**Transform the way your people work**

## Who is Sema4.ai?

We enable your enterprise to build, run, and manage intelligent **AI agents** that transform how people work.

AI can be an incredible workforce collaborator, but most businesses struggle to tap its potential. Sema4.ai makes it easier to harness the power of AI using AI agents that maximize efficiency and productivity in every corner of your business. Our agents take on the toil and heavy lifting of nonspecialized, repetitive tasks and automate critical processes that were previously impossible to automate.

With Sema4.ai, your teams can train AI agents that are built on your business processes, understand your data and applications, and perform the work you assign them.

## What problems does Sema4.ai help you solve?

**Resource-intensive tasks that were impossible to automate**
Tedious, undifferentiated work that's completed manually is often performed poorly, eating up valuable time and negatively impacting your business. Sema4.ai agents complete these tasks quickly and correctly every time, improving efficiency and business performance.

**LoB owners lack the technology to automate their processes**
Sema4.ai transforms LoB owners into AI architects by giving them all the tools they need to easily build and refine AI agents that boost efficiency.

**Siloed data and solutions slow down collaboration**
Sema4.ai lets business users and developers easily combine forces to automate processes that integrate with enterprise systems. Developers use our SDK to create custom actions specific to the business. LoB owners create AI agents using custom actions and pre-built actions from a shared gallery.

**Lack of centralized agent management drives up operational cost and risk**
As your organization scales to thousands of AI agents, managing them becomes crucial. Sema4.ai's control plane lets you centrally manage and secure all agents so you can focus on innovation rather than administration.

## What are AI agents?

**AI agents** are applications that use AI to work like humans do. They can:

🔄 **Reason**
Agents use runbooks to handle complex tasks one step at a time, making intelligent adjustments as they go.

🤝 **Collaborate**
Using natural language, agents communicate with everything around them, including people and other agents.

✅ **Act**
Using the information they gather, agents can send emails, update systems, and complete other critical tasks.

# Who is Sema4.ai for?

**LoB process owners**

Nobody else understands the nuances of your business like they do. We turn them into process architects with the power to create AI agents that flawlessly execute fine-tuned processes.

**AI builders**

Python developers can use powerful Visual Studio Code extensions to build advanced agent actions. Our open-source automation-as-code actions and data connectors allow full extensibility and control.

**AI operators**

Centralized management, security, and data privacy make it faster and easier to empower business users.

# How do you build an AI agent?

To understand how you build an agent, let's start with the building blocks. An AI agent is essentially a collection of actions that are used to interact with enterprise systems and applications. Those actions are based on runbooks that explain in simple terms how the agent should do its work to successfully complete a process. All the actions and agents are built in the Sema4.ai Studio. Here's how it works:

**In the Studio**

1. **LoB process owners author the runbooks.**
   No technical skills required – they simply use natural-language English to describe their processes in detail.

2. **AI builders build the actions.**
   Using the Sema4.ai SDK and full-featured developer IDE, builders build, test, and validate actions and publish them to an action gallery.

3. **Manage your AI agents.**
   By using pre-built templates, or starting from scratch, architects can combine actions from the gallery to begin building agents in just minutes.

# What makes a good AI agent use case?

If you choose the right projects, your AI agents can immediately improve efficiency, increase customer satisfaction, boost innovation, spark growth, and significantly cut costs. A good AI use case checks all these boxes:

✓ **Tangible business value.**
The agent can complete 90% or more of the work, while an employee is required to collaborate on only 10% or less.

✓ **Business-critical and reusable.**
The use case should be worthy of strategic C-suite oversight. To increase cost takeout, the process should contain patterns that are repeatable in other use cases.

✓ **Clearly defined end-to-end process.**
The agent will execute a complete process as defined by business intents and outcomes. Use cases with standard operating procedures (SOPs) or business process documents make great candidates to build a Sema4.ai runbook.

✓ **Self-contained process.**
The business user should own and author the entire process and any changes. Everything else is the builder's domain.

✓ **Was previously impossible to automate.**
Agents can reason through complex processes and handle ambiguity that broke legacy RPA tools or made use cases too expensive or too time consuming to solve with custom code.

✓ **Requires understanding data and/or documents, not just extraction.**
Our Document Intelligence Service can understand data and documents to provide context to the agent as it does its work.

✓ **Involves more than one app or system.**
Sema4.ai excels when work crosses systems, APIs, or tools because of our automation-as-code framework.

# What makes Sema4.ai different?

## Our products 🔗

Sema4.ai is the first platform that enables LoB process owners to architect their own AI agents to perform work in the enterprise. We use generative AI to simplify the development of agents and actions, and we make it easy to seamlessly deploy agents into your production environment. Agents built with Sema4.ai use cutting-edge reasoning tools, and our Control Room provides a single unified interface to audit the agent decision-making process and ensure accountable AI.

Built from the ground up to be portable, Sema4.ai lets you choose your cloud environments and LLMs, and it gives you access to thousands of data sources to provide the greatest flexibility and highest cost control for your agents.

## Our people 🔗

With Sema4.ai, you're not just adopting a technology, you're partnering with a team that combines deep enterprise knowledge with cutting-edge AI expertise. Our founders are innovators in open source, big data, and automation-as-code. As previous leaders of the Enterprise Hadoop offering at Hortonworks and Cloudera, the Sema4.ai team has already managed a quarter of the world's data with deployments in 90+ countries.

## Top use cases for AI agents

We recommend starting with these use cases featured in Forbes:

**1** **Invoice processing.**
Automate complex invoice reconciliation and free up employees for high-value tasks.

**2** **Backend payment reconciliation.**
Automatically extract and match receivables data to increase speed and accuracy.

**3** **Regulatory compliance.**
Reduce risk, save time on monitoring and reporting, and ensure your compliance is up to date.

**4** **Employee onboarding.**
Streamline your process, improve new-hire experiences, and reduce HR admin burdens.

## Get started with Sema4.ai

ⓘ Learn more about our company and AI agents at **sema4.ai**

📅 Schedule a workshop or demo with **sales@sema4.ai**