

AI SDRs Demystified: What They Do (and Don't) Deliver

I'm calling it - the term "AI SDR" is the most hyped concept in outbound right now.



Jason ✨🤖 SaaStr 2025 is May 1! 🟢
@jasonlk

So Salesforce is hiring 1,000 more salespeople to sell AI software ... that is supposed to reduce the need for humans and replace them with agents
pic.x.com/hsjlrz3mqS

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Technology | AI

Salesforce to Hire 1,000 People for AI Product Sales Push

- Company to take advantage of AI 'momentum,' CEO says
- Rivals also developing artificial intelligence agents



By [Brody Ford](#)

November 8, 2024 at 11:33 AM PST

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If you don't believe me, just google "AI SDR tools". See how many sponsored ad spots you have to scroll down through to get to actual content.

And don't even get me started on LinkedIn:

- "Bring in thousands of leads without expanding your SDR team"

- “Hire an SDR that never sleeps and never misses a follow-up”
- “Leverage AI to craft hyper-personalized outbound that converts”
- “Hire an SDR that’s already trained and sounds just like a human”
- “Create pipeline on autopilot”

Everyone’s talking about automating their outbound sales motion with AI.

But there’s a lot of hype and noise - let’s cut through it and explain:

1. What exactly is an AI SDR, and why is everyone talking about it?
2. The specific use cases you might add one to your team
3. The blind spots they might have

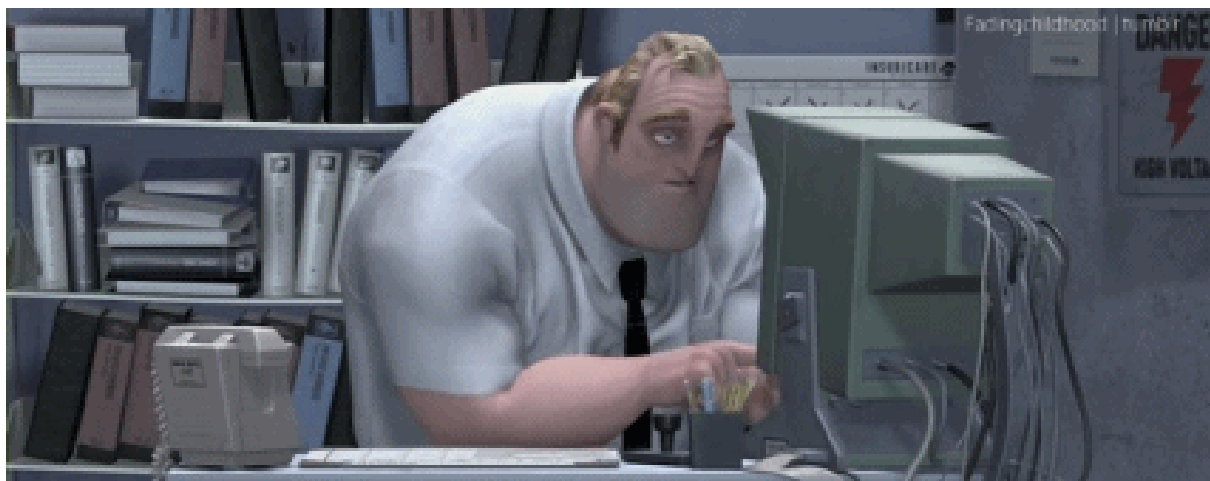
Let’s dive in.

Why is everyone talking about AI SDRs?

AI is eating traditional sales. But, why are we replacing sales development representatives (SDRs) specifically?

SDRs focus on the top of the funnel where all your leads lie, unfiltered. The reality is, most of them will never reply to an email or sign a deal, but you still need to make sure every lead gets a meticulously researched and personalized email.

It’s high volume, high repetition, and painfully manual. In many ways, it’s the perfect storm - prime for Gen AI to transform.



Plus, everyone wants to hit quota. In this economy, it’s no guarantee. Any solution that promises a better pipeline is something worth checking out. Especially if it means you don’t have to increase headcount.

It's not wrong to think this way. Any sales leader SHOULD be carefully evaluating their sales motion.

Imagine a sales manager oversees a team AI SDRs, each working tirelessly while you sleep:

- Sourcing leads automatically customized to your niche
- Cleaning / qualifying / enriching massive contact lists
- Setting up and warm email inboxes seamlessly
- Testing and iterating on cold outbound strategies
- Replying to emails and booking meetings

Each morning you wake up to a calendar full of meetings with qualified leads.

That's the pitch, anyway.

But, if you're like me you don't take anything at face value.

What does an AI SDR *actually* do?

As an AI company, we frequently ask ourselves, "where does the software end and AI begin?" With AI SDRs, it's more software than you think.

AI SDRs are multiple processes automated and bundled into a nicely wrapped package (sometimes frighteningly with a human face). What processes differ between vendors, but at its core, there are 5 tasks an AI SDR is performing for you:

1. Sourcing Leads
2. Enriching and Qualifying
3. Inbox Setup
4. Outreach
5. Handoff to AE

We'll assume familiarity with these processes to some degree and focus on where the AI SDR is adding value.

Sourcing a leadlist

AI SDRs source leads by tapping into pre-existing databases of potential customers. So, what are these databases?

Most products will try to hide the source and pretend like it's magic, but under the hood, it's the usual suspects your team is already using:

- LinkedIn
- Apollo

- Zoominfo
- Crunchbase
- Cognism
- Clearbit

If they're fancy (and expensive), you might tap into providers of intent data like 6sense, MadKudu, G2, RB2B.

And if they're really fancy, they may have a proprietary database of leads or have AI Agents visiting 1st party sources to find leads for you. Like visiting conference websites, monitoring social media, or scraping industry specific directories.

What the AI does is transform your criteria (firmographic, demographic, and everything in between) for a great lead or existing lead profiles into what's required to build a contact list of new leads. That means:

1. Creating searches that work for the integrated data providers
2. Joining data for similar contacts together
3. Verifying contact information (sometimes)

This step is fairly straightforward, but the cost of getting it wrong is also high. Wasted time and resources with poor-quality leads at every subsequent step in the funnel.

Enrichment, qualification, research

Many sales teams are guilty of spray-and-pray tactics. Sending too many poorly personalized emails to too many unqualified leads. My inbox is a testament to that.

Why?

At this stage of the funnel, it's hard to tell who will convert. With so many leads, it's time-consuming and expensive to spend too many resources doing research on each one.

That's where AI SDRs can shine. Doing more research in a fraction of the time to better understand your leads:

1. Enrich - filtering the most relevant data points from multiple data providers
2. Research - crawling 1st party sources (company websites, social media, or even just Googling)
3. Qualify - using qualitative reasoning on multiple criteria to identify the best leads

Better AI SDRs use proprietary prompts and training data that result in a more accurate categorization of a lead. They also retrieve 1st party data that's up-to-date and unique - this is key for the best outreach. If you care to dig deeper, we've done research in both of these areas and built them into Bardeen:

- Using AI and Humans together for qualification: [BYOC: Personalized Few-Shot Classification with Co-Authored Class Descriptions](#)
- Using AI for web research: [WILBUR: Adaptive In-Context Learning for Robust and Accurate Web Agents](#)

Inbox priming

18 months ago, warming your inboxes for cold outreach was an afterthought. Then, Google changed its policies for mass email senders (and other mail providers followed soon after).

This transformed the process of sending email into the non-exact science from a simple mail-merge, to the in-exact science of warming up inboxes. Note, this is most important for cold outreach, where warming up an inbox means better deliverability,

The leading tools in this space will recommend and help you do the following:

1. Set up a series of inboxes under different domains (not sub-domains and definitely not your main website domain). How many? Each inbox can send around 20 emails per day, and each domain should contain 2-3 inboxes.
2. Set up DKIM, DMARC & SPF Records. This ensures mail services can verify the validity of the domains you're using to send email.
3. Over the course of 2 to 3 weeks, slowly ramp up your send rate. If you're using an inbox warming service, this phase will involve sending emails and receiving replies from a list of dummy domains set up by the warming service.

SEO is the way to go! • [Redacted] External > [Icons]



Jason Gong <jason@bardeen.ai>
to audit ▾

Fri, May 31, 8:39 AM ☆ ↶ ⋮

Hey there,

It feels great being connected with you. I find your posts truly inspiring and they motivate me each day to be the best version of myself.

I noticed your website's traffic has hit a low point.

SEO is a great tool to boost organic traffic and keep it consistent.

Look at the results we got for a competitor here:

And I'm sure we can do so much more for you!

Worth a quick chat?

Reply to me if interested, so we can schedule a meeting.

Best regards,

I did not write this



SEO Notice <audit@seonotice.com>
to me ▾

Fri, May 31, 8:46 AM ☆ ↶ ⋮

Hey,

We're looking for help on SEO!

Let's get on a quick intro call tomorrow.

Talk soon!

this is not a real person

Sure, what time?

Sounds good, talk to you then.

I'm not interested.

↶ Reply

↷ Forward

So, how does an AI SDR do this? They don't. AI SDR products generally do not provide this service for you (unless you're paying for some human at the company to manage these domains for you).

The most common model we see involves companies doing this on their own, and then hooking up the mailboxes to the AI SDR tool.

Outbound optimization

Now's where the rubber hits the road, and we can start reaching out to prospects.

Email copy is generated with a sophisticated series of prompts that leverages all the data providers and 1st party research found in previous steps and is sent through the warmed inboxes.

If you're lucky, the platform will give you room to customize the template it uses so things like this don't happen...



Colby Morgan · 1st
VP, Revenue at Bardeen.ai
1mo · 🌐



"Swan boat traffic" is not a thing.... 😊

Sales folks! No more of this!

Smart automation + 5 minutes + common sense = success at scale

I'll put my current (as of this week) workflow in the comments---



Pascal Artem Jason Joe Hayk



Boston - Swan boat?

External
advertisement

Inbox



[Redacted] 8:19 AM

to me ▾



Hello Colby,

Looks like you're based in Boston - how's the swan boat traffic today?

The reason for this email is because my company helps technology companies like Bardeen through software design services. We help SaaS companies improve metrics such as free trial to paid conversions, LTV and retention.

You and 37 others

14 comments · 3 reposts

All jokes aside, AI (the LLM-based ones) is incredible at generating believable human-like text.

Good AI SDRs provide a customizable email template and matching controls for tone. The best also trigger emails at the appropriate time based on intent signals.

Call booking

Lack of urgency kills deals. This means every hour you wait after a lead shows interest is money lost.

AI SDRs monitor the inbox for replies to sales outreach. Based on the reply, emails will be routed to your human sales team, automatically responded to with a calendar link, or disqualified.

A gap we see with AI SDRs is the lack of functionality once a human is in the loop.

Once a meeting happens, it's about continuing to track the funnel so the human can focus on selling.

- Was the meeting successful?
- How many calls did we book per campaign?
- What action items came from the notes?
- Did they show? Do we need a follow-up?

This leads us to the problem with end-to-end AI SDRs that promise to do it all.

The Problem with AI SDRs

I saw this [highly scientific \(/s\) survey](#) from SaaStr that gave some...interesting results.



SaaStr

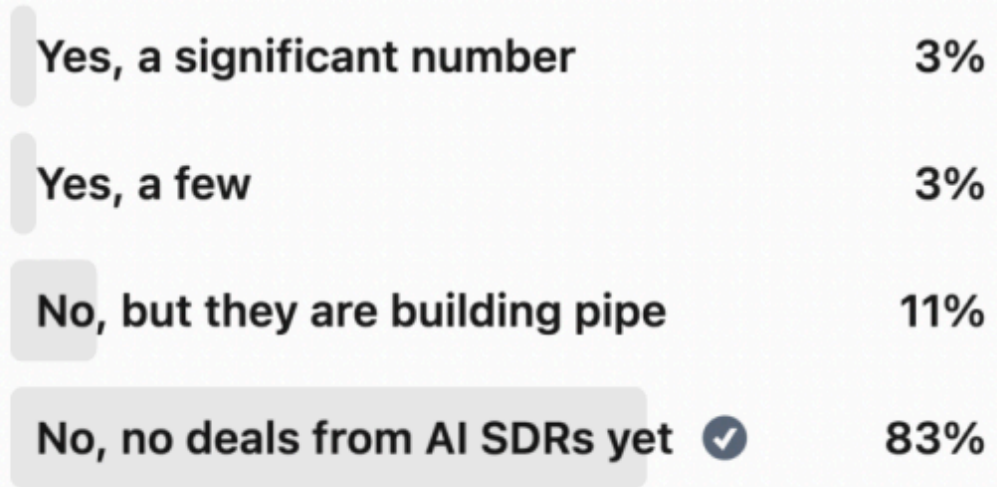
62,990 followers

4d •

Have you closed actual deals from an AI SDR yet?

Have you closed actual deals from an AI SDR yet?

The author can see how you vote. [Learn more](#)



869 votes • 2d left • [Undo](#)



You and 25 others

14 comments

Now, this is an informal survey on LinkedIn, but by now you've probably also seen other posts with a similar sentiment towards AI SDRs.

Our take is that AI SDRs aren't a magic bullet. To have a successful outbound sales motion, you need:

- A deep understanding of your target customer
- Messaging that resonates
- A killer sales process that converts
- A product that is differentiated

There's no shortcut.

AI SDRs also come with their own problems. The promise is an end-to-end automated solution - set it and forget it for outbound. In reality, it's unrealistic to suggest that.

First of all, AI can be unreliable for these types of tasks. One task with a 95% success rate is excellent, but AI SDRs string together chains of tasks. Ten 95% success tasks in a row ends up being a 50% chance of failure. How are you supposed to set and forget that?

In reality, it's a headache to let AI handle everything. Sometimes, you want a human in the loop - to add context, put a personal touch on a message, or adjust structure. AI can't handle every type of response, and you shouldn't expect it to. If you're buying an end-to-end solution, what's the point in expecting to get in the weeds all the time?

Plus, almost all of these companies are new solutions, creating their own workflows when robust tools already exist. An AI SDR won't be able to craft HubSpot level email sequencing - you're forced to use whatever UI and implementation the AI SDR has. They also use their own proprietary enrichment data - if you want to pull in from Apollo, you might be out of luck.

Hopefully, this gives you some peace of mind. Because no, your competitors aren't getting miles ahead of you with fully automated SDR teams.

What parts of the SDR function should I automate?

By now, I think you'll agree the SDR job description needs an update. There are things that a human simply shouldn't be doing, because AI is better.

AI might outperform a human for steps like inbox warmup, lead enriching and qualification, and automated outreach.

But you still need a human in the loop for a few key situations:

- Personal communication and messaging: It's so easy to spot bad AI copy, and without a human to check the writing, it's a bad strategy to hand this off to AI.
- Unscripted situations: It's impossible to predict every way a lead could respond to your conversations, or every question they might have. Humans inevitably need to step in at some point.
- Checking hallucinations: AI can't really fact-check itself at scale.

Put simply: we don't recommend firing your team of SDRs and hiring infinite AI replacements.

There's a better way.

How does Bardeen better the approach of AI SDRs?

The elephant in the AI SDR room

The copy of all these websites starts with "Hire David, the AI SDR, to automate your sales motion."

Then, they talk about the elephant in the room: "Actually, don't automate everything. Humans should still be in the loop for X / Y / etc."

That's exactly how we designed Bardeen. Human-enabled with powerful AI automations, to improve your outbound motion.

Because, let's face it. The idea is to replace the most junior roles on your team with AI SDRs. But...

- 20 SDRs is not a substitute for 1 great AE
- 10 great AEs are not a substitute for a seasoned VP
- Volume ultimately doesn't mean quality.

Qualified AI-augmented humans will beat a salesforce of 20 AI SDRs. Every time.

Remember integrations...

Let's take a look at all the tools you'll need to do just ONE part of the sales motion: lead sourcing.

1. Source leads using tools like Apollo, LinkedIn, ZoomInfo, etc.some text
 - Apollo.io, LinkedIn Sales Navigator, ZoomInfo
2. Enrich lead datasome text
 - Clearbit, ZoomInfo, Bardeen, LinkedIn, FullContact, InsideView
3. Filter / Qualify (Optional)some text
 - Custom qualification / filtering based on user's preferences
4. Personalize outreach messagessome text
 - BardeenAI
5. Add leads to CRM systems like Hubspot, Salesforce, Dynamics, Zohosome text
 - HubSpot, Salesforce, Microsoft Dynamics, Zoho CRM
6. Enroll leads in sequences using Hubspot, Outreach, or direct emailsome text
 - HubSpot Sequences, Outreach, SalesLoft, Mailshake, Woodpecker, Apollo.io
 - GMail/Outlook (Draft or autosend)

12+ tools just to source and qualify leads. Do you really trust an AI SDR to handle all those handoffs, error-free?

Bardeen supports more integrations, and allows you to make sure everything's done correctly.

Hands-off vs human-in-the-loop

If you're happy handing your entire sales motion off to AI, that's perfectly fine.

But like we talked about before, reputation follows you. If you make a bad impression with generic copy and pathetic follow-ups, you're digging yourself and your sales team a gigantic hole.

Not everyone wants to put their faith in the magic of AI SDRs.

If you're trying to level up your outbound motion...

We're constantly adding new automations to Bardeen. [Check us out](#) to learn more.