



INDUSTRY
Artificial intelligence

HEADQUARTERS Paris, France USE CASES
Compute, SUNK



Build and scale Al with confidence

Learn how CoreWeave helps scale the latest Al innovations.

See it in action

AI INFRASTRUCTURE AT SCALE

Challenge

Since launching in 2023, <u>Mistral Al</u> has taken the Al scene by storm, proving that the next generation of groundbreaking Al innovation doesn't have to be led from Silicon Valley. In an era long dominated by North American hyperscalers, tech giants, and well-funded Al labs, Mistral Al has emerged as a bold new entrepreneurial force and a major player in today's Al revolution.

By releasing powerful, open-source large language models (LLMs) at unprecedented speed, Mistral AI has not only made waves in the developer community but also redefined what's possible for lean, fast-moving startups. Its mission is bold and clear: to deliver LLMs that empower greater access, more ownership, and better flexibility. That empowers labs and developers alike with models that are reliable, adaptable, and easy to integrate.

But that ambitious vision brings intense pressure. Mistral Al knew it needed to move faster than the market and scale without compromise. They knew they needed to grow at a pace that demanded a **highly specialized**, **deeply collaborative infrastructure partner** from day one in order to effectively tackle the following challenges:

- Limited time and resources: To stay competitive as a young startup, Mistral
 Al needed to get its models to market fast. That meant its developers
 needed to stay focused on developing exceptional models, not firefighting
 infrastructure challenges.
- Reliability and resiliency: For streamlined organizations like Mistra Al, saving on costs is absolutely essential. Mistral Al's teams required a partner that could ensure their clusters stayed healthy—and when there was an issue, that it could be rapidly resolved to minimize potential downtime and any impact on their bottom line.
- Rapid growth at scale: Growth is a major goal of any startup, but with rapid growth comes the need to quickly adjust to exponential increases in scale.
 Mistral Al needed a partner that could match its acceleration without delay or bottlenecks.

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"CoreWeave is one of the few providers that has real experience at very large scale for exactly what we do, so large language model training."

Timothée Lacroix CTO. Mistral Al

Solution

Mistral Al chose to partner with CoreWeave for a reason that is as bold and focused as their own mission: **CoreWeave is purpose-built for Al**. Every layer of our platform—from data center architecture to application services—is meticulously engineered to deliver the highest levels of performance, efficiency, and scalability for modern Al workloads.

Unlike traditional cloud platforms that stretch to meet a wide range of use cases, the CoreWeave Al Cloud platform is fine-tuned for Al acceleration. For Mistral Al, this meant they had access to a partner that could support their demand for speed, was flexible enough to meet their aspirations, and was capable and experienced enough to let innovation soar without compromise.

That's exactly why Mistral AI has consistently chosen to partner with CoreWeave since signing their first contract for H100s in 2023, standing up H200 and GB200 clusters over the last two years that have exceeded their highest expectations and gotten their AI models to market at a lightning-fast pace.

Mistral Al was able to tackle its critical challenges and accelerate innovation by using the following solutions:

AI WITHOUT COMPROMISE

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"[Our models] were trained 100% on CoreWeave infrastructure. Not being on that infrastructure would've delayed us by at least a few months."

Timothée Lacroix CTO, Mistral Al

- Slurm on Kubernetes (SUNK): Our <u>SUNK solution</u> facilitates greater workload fungibility and resource sharing between training and inference workloads by running both use cases on the same cluster. With SUNK, Mistral Al's engineering teams could collaborate without compromise, improving workflows and reducing bottlenecks across training and inference.
- Observability with ultra-granular metrics: Our observability platform provides detailed metrics and data for Mistral Al clusters out-of-the box, with no additional setup or extra charges required. Mistral Al can now easily visualize entire fleets of GPUs in one place, complete with full analytical detail about every node. Plus, Mistral Al can see real-time ingress and egress traffic throughput from each node in a cluster to external Internet endpoints, such as external model weight data sources, to identify under-optimized workloads.
- Automated health checks and 24/7 support: CoreWeave Mission Control continuously monitors the health of Mistral Al's nodes, ensuring job interruptions and issues are promptly flagged and resolved as quickly as possible. Plus, our FleetOps, CloudOps, and Data Center Technician teams all work in tandem 24/7 to monitor for signs of deterioration across our fleets and our Al Cloud platform environments.
- NVIDIA GB200 NVL72: Mistral AI was among the first to gain access to NVIDIA GB200 NVL72 racks.

 This opportunity unlocked an unprecedented level of computing power their teams could leverage to run training and inference jobs—accelerating both overall productivity and time-to-market. With the support of CoreWeave infrastructure, Mistral AI was able to train models 2.5x faster than previously experienced on NVIDIA H200s—and also vastly exceeded the performance, efficiency, and speed they experienced on NVIDIA H100s.

UNLEASH AI'S POTENTIAL

2.5 X faster training On NVIDIA GB200s

100% CoreWeave infra
Trained on CoreWeave Cloud

24/7 service

Dedicated engineering support

"

"What we don't see with CoreWeave are all of the many interruptions or issues that we would see elsewhere."

Timothée Lacroix CTO. Mistral Al

Results

Mistral Al's meteoric rise isn't just based on their ability to move fast and rapidly scale. It's also about their ability to strategically choose the right partner—one who is ready and able to grow and scale with their constantly growing needs. Mistral Al's partnership with CoreWeave allows their teams to focus more exclusively on **model innovation**, without burning time or resources on inevitable Al infrastructure challenges. That intense focus, combined with best-in-class compute, helped propel Mistral Al into the global spotlight with game-changing results:



Less maintenance, more focus:

CoreWeave's strong foundation and expert knowledge of Al infrastructure swiftly takes care of maintenance tasks and massively reduces interruptions, giving Mistral Al's teams the ability to focus their efforts on Al innovation. It also allows them to engage in faster experimentation, reduce the time required for training cycles, and achieve faster time-to-market.



Cost-efficient scaling:

CoreWeave infrastructure enables efficiency that unlocks faster speeds for Mistral AI, resulting in higher productivity and critical cost savings without sacrificing their ability to rapidly innovate at scale or introducing unnecessary strain or burnout to their teams.



A long-lasting, strategic partnership:

CoreWeave and Mistral Al's partnership goes above and beyond simply providing plug-in-and-play infrastructure. Mistral Al benefits from a hands-on relationship with CoreWeave expert engineers determined to provide 24/7 support. In return, CoreWeave benefits from continually developing and adapting its infrastructure capabilities to the specific needs of an Al partner like Mistral Al, driving further innovation and efficiency.

Take the next step

Unleash the full potential of the most ambitious Al innovations.

Contact Us



Powering innovation

See how CoreWeave's Al cloud delivers more.

Read more \rightarrow



Mistral video

Hear directly from the CTO of Mistral AI.

Watch →



IBM boosts performance

IBM acheived greater than 80% faster speed.

Watch now \rightarrow