

# Arcee-SuperNova

SuperNova is Arcee AI's flagship model, with all the power of a general use Large Language Model (LLM) but with the efficiency and cost advantages of a Small Language Model (SLM). It empowers businesses with full ownership of the model and of their data, customization tailored to their specific needs, and effortless one-click integration into existing systems while ensuring top-tier security and compliance.

## SuperNova is the Best Alternative to Closed-Source LLMs

SuperNova is our most advanced general use language model. Trained with the most state-of-the-art learning and optimization techniques, SuperNova beats top-performing LLMs, excelling at generalized tasks for which you might currently use solutions like ChatGPT Enterprise, Claude Enterprise, or Cohere. But SuperNova also excels at the following:

- Instruction-following
- Self-critique and reasoning
- Logical thinking and planning breakdown
- RAG integration

**With SuperNova, you get the most robust, flexible solution on the market, all while:**

- Maintaining strict compliance
- Integrating AI deeply into your existing systems (VPC/on-prem)
- Customizing the model on your proprietary data.

**All this – at a fraction of the cost of closed-source LLM solutions.**



### Unmatched Performance, Easy Updates & Maintenance

**60% Better Benchmarks:** Achieve superior performance with fewer hallucinations and faster responses.

**Affordable Updates:** Regularly update SuperNova with your latest data.



### Lower Costs, Higher ROI

**Up To 75% Cost Reduction:** Benefit from efficient model training & optimization, drastically lowering deployment costs and overall cost.

**Rapid ROI:** One-click deployment means you'll see a return on your investment faster.



### Top-Tier Security, Transparency

**Uncompromised Security:** Protect your data with industry-leading privacy measures.

**Full Data Ownership:** Maintain full transparency and control over the model and your data.

### SuperNova is the ideal solution for:

- **Industries with Stringent Security Requirements:** Sectors like finance, healthcare, and government that need secure, on-premise AI solutions to ensure data privacy and regulatory compliance.
- **Data-Driven Companies:** Organizations that require AI models tailored specifically to their proprietary data for tasks like natural language processing, predictive analytics, and customer interaction.
- **Businesses Seeking Cost Efficiency:** Companies looking to reduce operational costs without compromising on performance, with the ability to run AI models on cost-effective infrastructure.
- **Accuracy-Driven Organizations:** Companies that rely on precise and reliable AI responses, such as those in customer service and technical support, can benefit from SuperNova's exceptional instruction-following capabilities and high accuracy in generating human-like text.

### How Arcee AI customers use Supernova:

- Use SuperNova to integrate GenAI into apps and products, for general chat purposes, and for diverse use cases including:
- **Customer Service:** Advanced chatbots, virtual assistants, customer onboarding, customer support
  - **Software Development:** Code generation and quality improvement
  - **Content Creation:** High-quality marketing and documentation
  - **Data Analysis:** Enhanced interpretation and reporting
  - **Research and Development:** Literature reviews and hypothesis generation
  - **Legal and Compliance:** Contract analysis and regulatory checks
  - **Education and Training:** Adaptive learning systems.

### SuperNova... and also, SuperNova-Lite

SuperNova-Lite, the #1 8B-parameter model on the Hugging Face Open LLM Leaderboard, scales down the best of our flagship SuperNova model. The Lite version excels in both benchmark performance and real-world applications, providing the power of large-scale models in a more compact, efficient form ideal for organizations seeking high performance with reduced resource requirements.

Get your team started on SuperNova today **BOOK A DEMO** to learn how quickly you can get SuperNova implemented, and start getting ROI from your GenAI.