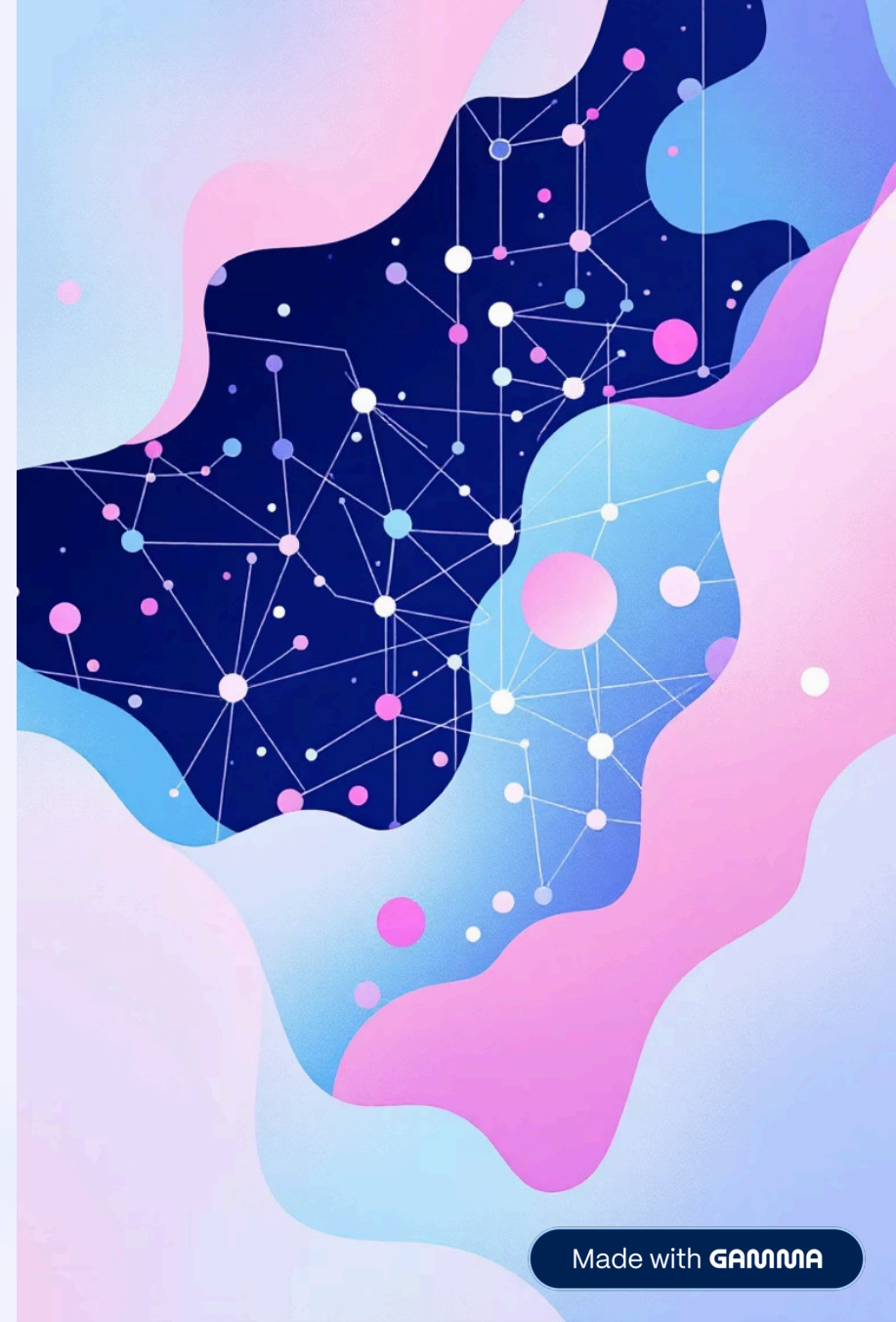


# Open Source vs Closed Source LLMs

Understanding the Differences in Large Language Models





# Open Source LLMs

Open source Large Language Models provide unrestricted access to their source code, enabling developers and organisations to inspect, modify, and deploy them according to their specific requirements.



## LLaMA

Meta's efficient foundational models available for research and commercial use



## Falcon

Technology Innovation Institute's high-performance model trained on multilingual data



## MPT

MosaicML's commercially usable model optimised for various deployment scenarios

## Advantages

- Fully customisable for domain-specific tasks and use cases
- Encourages collaborative innovation and transparency in AI development
- No vendor lock-in or recurring subscription costs
- Complete control over data privacy and security

## Disadvantages

- Requires substantial technical expertise for implementation
- Infrastructure and maintenance costs can be significant
- Limited accountability for potential misuse
- May need additional fine-tuning for production readiness





# Closed Source LLMs

Closed source LLMs maintain proprietary source code, with access typically provided through managed APIs or commercial products backed by the developing organisation's support and infrastructure.

## ChatGPT

OpenAI's conversational AI assistant with broad knowledge and reasoning capabilities

## Claude

Anthropic's AI assistant emphasising helpful, harmless, and honest interactions

## Bard

Google's conversational AI powered by advanced Gemini models with internet access

## Advantages

- Professionally maintained with regular updates and improvements
- User-friendly interfaces suitable for non-technical users
- Robust customer support and documentation
- Consistent performance and reliability guarantees

## Disadvantages

- Limited customisation options and flexibility
- Recurring costs through subscriptions or API usage fees
- Less transparency regarding training data and methodologies
- Potential vendor lock-in and dependency concerns

# Key Differences at a Glance

This comprehensive comparison highlights the fundamental distinctions between open source and closed source Large Language Models across critical evaluation criteria.

Feature	Open Source LLM	Closed Source LLM
Code Access	Publicly available	Private and proprietary
Cost Structure	Usually free (infrastructure costs apply)	Paid subscriptions or API usage
Customisation	Highly customisable	Limited to available features
Transparency	Full visibility into architecture	Limited transparency
Maintenance	Community-driven development	Company-managed updates
Support	Community forums and documentation	Professional support teams
Deployment	Self-hosted or cloud	Managed cloud services
Privacy Control	Complete data sovereignty	Depends on provider policies

# Choosing the Right LLM for Your Needs



## Open Source

Flexible, transparent, and community-driven with complete customisation freedom

## Closed Source

Easy to use, professionally maintained, and backed by enterprise support



### Technical Capability

Assess your team's expertise in AI, infrastructure management, and model deployment



### Budget Considerations

Evaluate upfront costs, ongoing expenses, and total cost of ownership for each option



### Use Case Requirements

Determine whether your application needs customisation, scale, and specific performance characteristics

The optimal choice between open source and closed source LLMs fundamentally depends on your organisation's **technical capabilities**, **budget constraints**, and **specific use case requirements**. Both approaches offer distinct advantages that can drive innovation and business value when properly aligned with your strategic objectives.