



FinLLM Safety, Ethics, and Value in Financial Services

Setting a New Standard for
Responsible AI in a Regulated Industry

Why Safe, Ethical AI Matters in Finance, and How FinLLM Delivers

FinLLM has been developed by Aveni to meet the highest standards of safety, ethics, and compliance, specifically tailored for the financial services sector. As AI becomes increasingly integrated into financial processes, from customer service and regulatory compliance to investment advice and risk management, the need for trustworthy, transparent, and responsible AI solutions is more pressing than ever.

Financial institutions operate within one of the most regulated and risk-sensitive industries, where even small mistakes can have profound consequences for consumers, businesses, and the wider economy.

FinLLM aims to address this challenge by embedding safety and ethical considerations into every layer of its development, deployment, and ongoing use. This document outlines our comprehensive approach to ensuring FinLLM delivers value without compromising safety or trust.



1. Governance: Building AI You Can Trust

Strong governance is the cornerstone of any safe and ethical AI system. For FinLLM, governance is not just about compliance, it is about creating a culture of accountability, transparency, and ethical decision-making throughout the entire AI lifecycle. Our approach draws from the best of regulatory frameworks and ethical AI research to ensure every step, from design to deployment, is carried out responsibly. We map clear responsibilities, establish documentation standards, and embed risk assessment into every stage to ensure no blind spots remain unchecked.

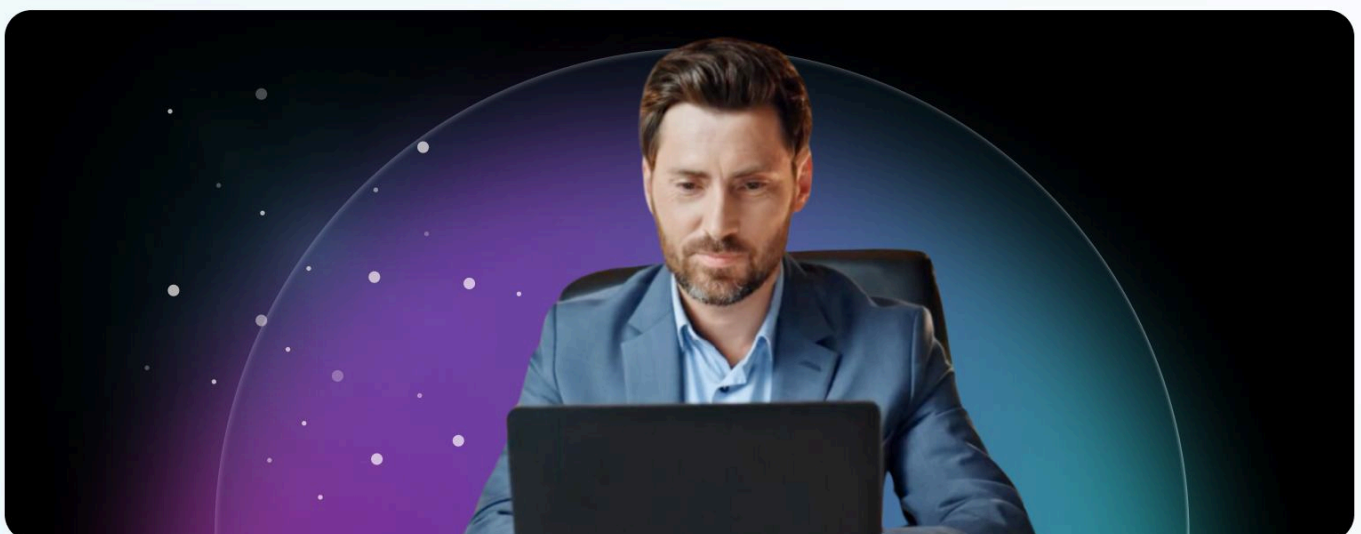


Key Takeaways:

- FinLLM is underpinned by a comprehensive governance framework aligned to global regulatory standards.
- Ethical oversight ensures alignment to core principles such as fairness, transparency, and accountability.

Implications for Financial Services

Firms can deploy FinLLM with confidence that its governance structure supports regulatory compliance, risk management, and stakeholder trust, helping to withstand increasing regulatory scrutiny.



2. Data Collection: Clean, Ethical, UK-Specific

The quality and integrity of data are critical to the performance and safety of any AI system. FinLLM's data collection process is designed to be both ethical and highly specific to the UK financial sector. We go beyond simple scraping by ensuring each data source contributes to the model's ability to provide contextually accurate, fair, and non-discriminatory responses. Toxicity filtering and bias identification are systematically applied to maintain the integrity and relevance of the model.



Key Conclusions:

- FinLLM's data is carefully curated to align with UK financial services, ensuring relevance and ethical integrity.
- Strong data protection measures (pseudonymisation, toxicity filtering) reduce the risk of harm and bias.

Implications for Financial Services

Solutions built on FinLLM avoid harmful stereotypes, support inclusive financial services, and help firms demonstrate responsible AI use in customer interactions.

3. Safety-First Model Training & Evaluation

Safety is not an afterthought in FinLLM—it's an integral part of the model's design and development. We conduct rigorous training using purpose-built datasets and evaluate the model systematically across safety categories including bias, misinformation, and hallucination. This method ensures that FinLLM can handle complex financial queries while maintaining alignment to ethical and regulatory expectations.



Key Conclusions:

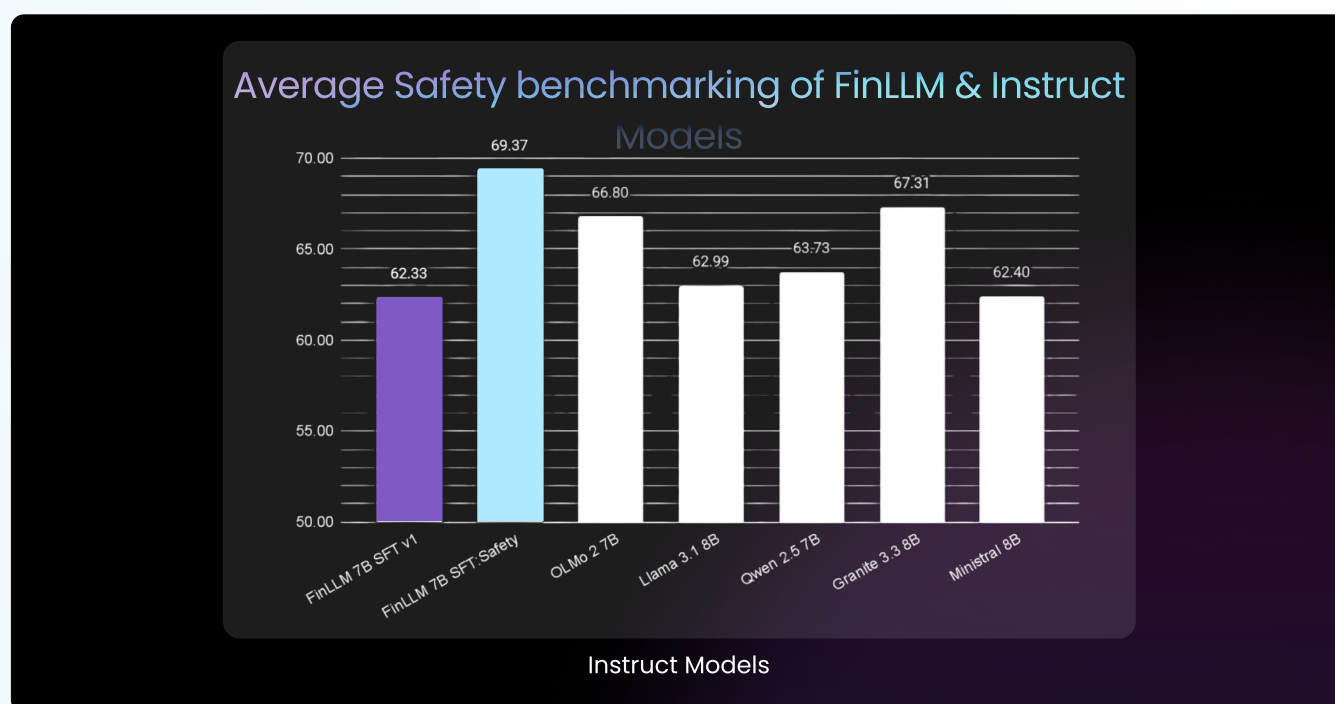
- FinLLM undergoes rigorous safety evaluations across multiple risk categories.
- Continuous improvement through fine-tuning ensures alignment to evolving regulatory and ethical expectations.

Implications for Financial Services

Firms benefit from AI that reduces the risk of non-compliance, misadvice, or reputational damage by consistently providing safe, accurate outputs.

4. Performance Highlights: Safety That Outperforms

Achieving the right balance between safety and performance is essential for AI adoption in finance. FinLLM demonstrates that robust safety mechanisms need not come at the expense of high performance. Through ongoing benchmarking, we ensure that FinLLM remains competitive in task execution while safeguarding against known risks.



This graph shows FinLLM's safety can be significantly enhanced through supervised finetuning without sacrificing performance or responsiveness. In an industry where regulatory scrutiny is intense and the cost of errors can be severe, this balance between safety and capability is vital.

Many financial services firms are rightly concerned that adding safety layers to AI models may dilute their usefulness or slow down processes.

For financial services firms, this means that essential AI-driven functions, such as summarising customer interactions, generating compliant documentation, or assisting with regulatory queries, can be automated safely, with lower risk of non-compliance, misinformation, or reputational harm. It reflects FinLLM's fundamental strength: delivering both precision and protection in high-stakes environments.

**Key Takeaways:**

- FinLLM matches or exceeds industry benchmarks on both safety and performance.
- Safety improvements do not come at the cost of task effectiveness.

Implications for Financial Services

Firms can automate sensitive tasks such as financial document summarisation and compliance checks with confidence, improving operational speed while maintaining safety.

5. Guardrails: Pre, During, Post-Call Protection

Real-world deployment of AI in financial services requires robust guardrails that operate at multiple levels. FinLLM's guardrails actively prevent harmful content from being generated or shared. They are adaptable to different risk environments—whether for internal compliance support or direct customer interaction—ensuring appropriate safeguards are always in place.

**Key Takeaways:**

- FinLLM's layered guardrails enable dynamic, real-time risk mitigation tailored to each use case.
- Guardrails are flexible and can be tuned to the needs of public-facing vs internal applications.

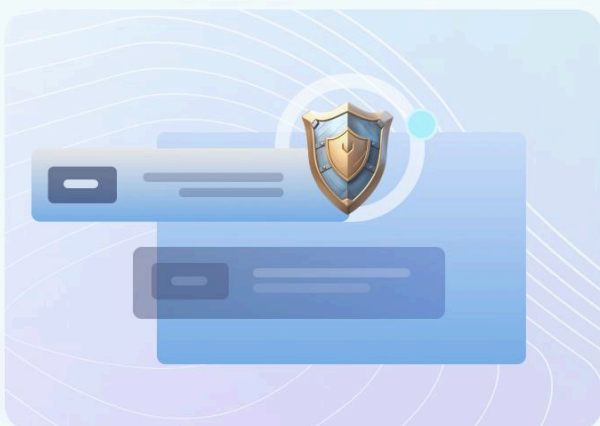
Implications for Financial Services

Solutions using FinLLM can safely support sensitive tasks such as customer onboarding, regulatory Q&A, or automated decision support without increasing operational or compliance risk.

6. Automated Testing & Continuous Monitoring

Threats evolve, and so must AI systems. FinLLM's proactive testing and continuous monitoring expose vulnerabilities that may not be apparent in static testing. By simulating real-world attack scenarios and unusual prompts, we ensure resilience against novel risks, reinforcing the system's trustworthiness over time.

To ensure FinLLM remains resilient to emerging risks, we apply a systematic and rigorous approach to automated red teaming and evaluation. Using established adversarial testing frameworks and curated datasets – such as AyaRedTeaming, Anthropic HH-RLHF, HarmBench, and WildJailbreak – we stress-test the model across a broad range of vulnerabilities. This proactive method allows us to surface potential weaknesses and refine the model through targeted post-training, including Direct Preference Optimisation (DPO).

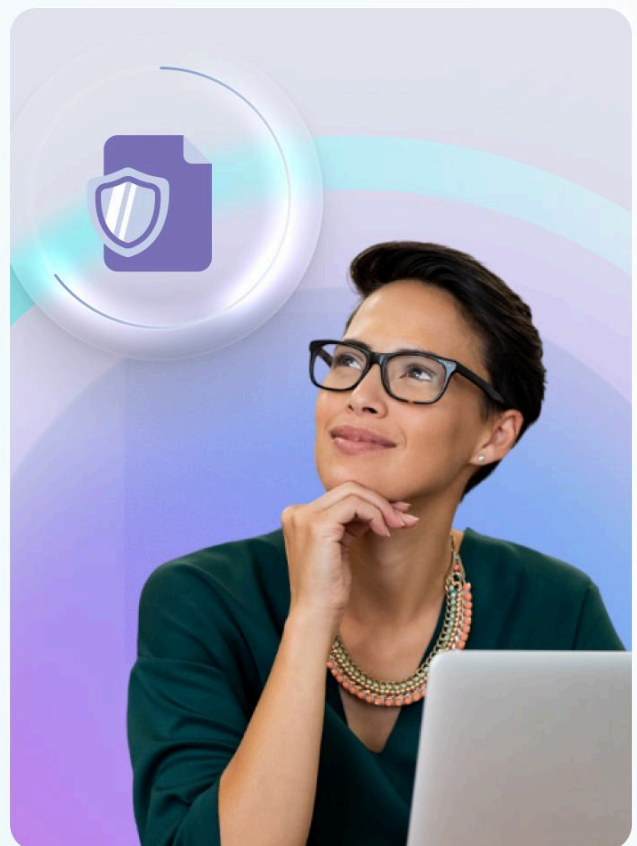


Key Conclusions:

- FinLLM incorporates proactive red teaming and live monitoring to ensure ongoing resilience against emerging risks.
- Continuous feedback loops allow rapid response to incidents or failures.

Implications for Financial Services

Firms using FinLLM gain an AI system that can adapt to fast-changing regulatory landscapes and evolving cyber threats, ensuring long-term compliance and safety.



7. Real-World Use Cases: Immediate Impact

Many financial services firms today rely on generic AI models that aren't built for the realities of a regulated, high-stakes environment. These off-the-shelf models often fall short on safety, compliance, and sector relevance. FinLLM changes that. Drawing on Aveni's deep financial services expertise and close collaboration with industry partners, FinLLM is specifically designed for real-world financial applications where trust, accuracy, and ethical responsibility matter.

Client-Advisor Call Summarisation & Fact-Finding

In financial advice, advisers spend hours summarising client calls and extracting key facts to meet regulatory requirements. FinLLM automates this process with high precision, helping firms:

- Accurately capture financial details and client instructions.
- Follow consistent structure and tone in summaries.
- Identify key information without missing critical context.

This isn't just about saving time, it's about reducing the risk of error, speeding up advice delivery, and freeing up advisers to focus on

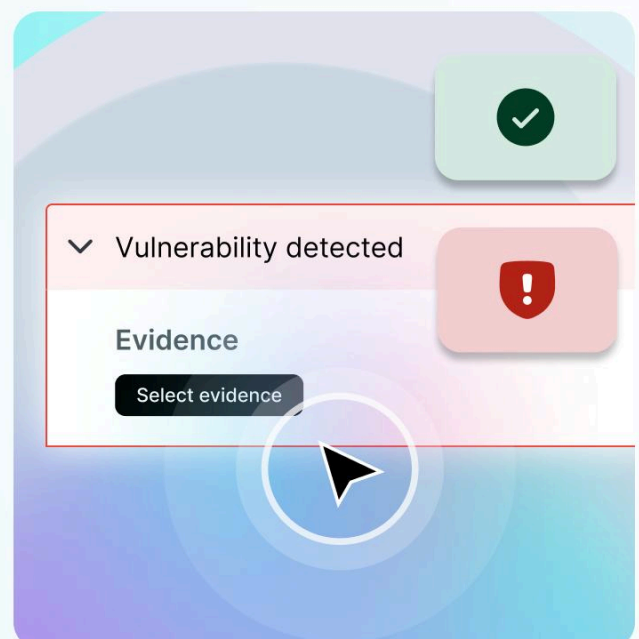
building relationships rather than paperwork.

Vulnerable Customer Detection

Spotting signs of vulnerability is essential in delivering fair outcomes, particularly under the FCA's Consumer Duty. FinLLM can help by:

- Identifying subtle signals of distress, hardship, or vulnerability in real time.
- Escalating cases to human advisers for personalised support.
- Ensuring no vulnerable client is overlooked in high-volume environments.

By automating this triage, firms can cut manual review time while improving care for customers who need it most.



Reporting, Monitoring, and Feedback

Safe AI deployment doesn't stop once the model goes live. FinLLM includes robust monitoring, reporting, and feedback to keep safety and compliance front and centre:

- Clear Model Use Guidance ensures the AI is used correctly and responsibly.
- Detailed Model Documentation provides transparency for audits and regulators.

Ongoing incident monitoring helps detect and manage any safety issues quickly, with the flexibility to adapt depending on whether the solution is cloud-based or client-hosted.

AI That Works for Business and Customers

FinLLM is already delivering tangible benefits in the field, and its potential reaches far beyond efficiency alone. By embedding safety, compliance, and fairness into every use case, FinLLM helps financial institutions:

- Automate responsibly without cutting corners on risk or care.
- Improve outcomes for vulnerable customers.
- Build trust with regulators, clients, and stakeholders.

In short, FinLLM empowers firms to modernise with confidence, bringing together smart automation with the high ethical standards that financial services demand.



8. Sustainability: Ethical AI for People and Planet

At Aveni, we believe that ethical AI includes environmental responsibility. FinLLM is developed not only to be safe and effective but also to minimise its environmental footprint. By using model optimisation techniques and energy-efficient infrastructure, we actively reduce the carbon impact of model training and deployment.



Key Takeaways:

- FinLLM is developed with a strong focus on sustainability, carbon impact reduction, and resource efficiency.
- Transparent reporting on environmental impact reinforces ethical AI leadership.

Implications for Financial Services

Financial firms adopting FinLLM can meet internal sustainability commitments and demonstrate to regulators and customers their leadership in responsible AI.

Why FinLLM Sets the Standard for Safe and Ethical AI in Financial Services

The introduction of AI into financial services presents both enormous opportunity and significant risk. In a sector where trust is paramount, and decisions can directly impact individuals' financial wellbeing, safety cannot be an afterthought, it must be foundational.

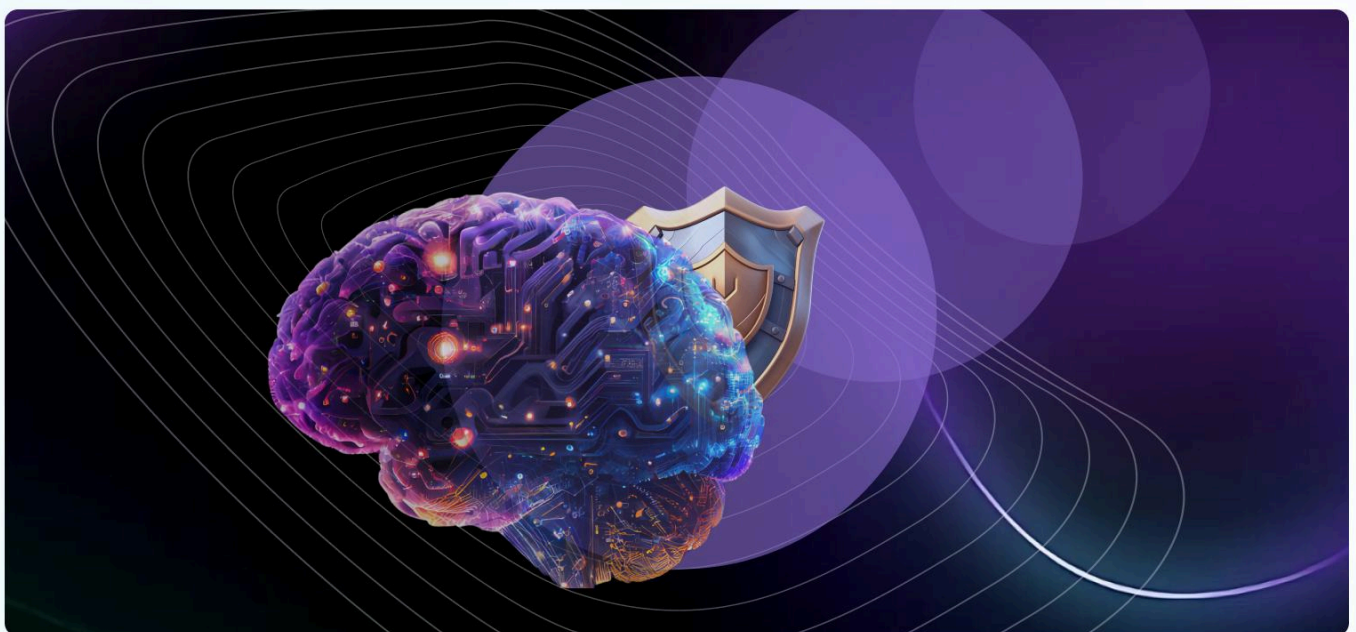
FinLLM sets a new benchmark for what responsible AI in finance should look like. Its development has been shaped by the principle that AI must be as safe as it is smart. Through meticulous governance, transparent processes, rigorous risk mitigation, and continuous improvement, FinLLM addresses the unique challenges that financial institutions face when deploying AI, challenges such as regulatory scrutiny, ethical responsibility, data privacy, and customer protection.

The safety measures embedded within FinLLM are not abstract ideals; they translate into tangible outcomes: fewer compliance failures, reduced reputational risk, better client care, and operational efficiencies that free human advisers to focus on high-value, complex client needs. By automating the routine, while carefully managing the risks of AI missteps, FinLLM enables firms to deliver faster, fairer, and more accurate services.

Equally important is FinLLM's forward-looking stance on sustainability. Financial services firms are under growing pressure to demonstrate ethical and environmental stewardship, and FinLLM supports this by being resource-efficient and transparent about its environmental impact.

In short, FinLLM is not just another AI model, it is a responsible, sector-aligned solution designed to help financial institutions navigate the complexities of modern finance safely. It empowers firms to innovate with confidence, knowing that safety, ethics, and compliance are not only built-in but continuously evolving to meet the demands of an ever-changing regulatory and technological landscape.

This is the AI the financial services sector needs: one that is not just powerful, but trustworthy by design.



**Get in touch with our team to
explore how FinLLM can be
deployed in your organisation**

Reach us at hello@aveni.ai to start
the conversation.

