

## AI Governance in Large-Scale Enterprise Financial Systems: A Multilayer Framework for Risk, Compliance, and Trust

Sudeep Agarwal

### Abstract

Artificial intelligence (AI) is increasingly embedded in large-scale enterprise financial systems, where it supports credit decisioning, fraud detection, risk management, and regulatory reporting. While these systems offer efficiency and predictive gains, they also introduce new forms of model risk and ethical challenges that existing governance structures struggle to address. This paper proposes a multilayer AI governance framework tailored to large financial institutions, integrating model risk management, regulatory compliance, ethical principles, and operational controls across the AI lifecycle. Drawing on emerging regulatory initiatives and supervisory expectations in model risk management, the framework defines governance layers at the levels of data, models, systems, and organizational oversight, and formalizes key metrics for performance, fairness, robustness, and explainability. A set of diagrammatic reference architectures and mathematical formulations is used to demonstrate how the framework can be instantiated for typical enterprise use cases such as credit scoring and anti-money laundering (AML) monitoring. The paper further discusses implementation considerations, including centralization versus federated governance, the role of AI governance committees, and continuous monitoring using AI-specific indicators such as data drift and bias metrics. The proposed framework aims to support financial institutions in achieving compliant, reliable, and trustworthy AI at scale while preserving room for innovation.

### Keywords:

AI Governance;  
Financial Services;  
Model Risk Management;  
Regulatory Compliance;  
Algorithmic Fairness;  
Explainable AI

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### Author correspondence:

Sudeep Agarwal,  
Bachelor Of Technology, Sikkim Manipal University, India  
Senior Vice President, Senior Technology Manager, Bank Of America, NJ, USA  
Email: sudeepagarwal1986@gmail.com

## 1. Introduction

Large-scale enterprise financial systems increasingly rely on artificial intelligence (AI) and machine learning (ML) to handle high-volume, high-stakes decisions that were previously rule-based or manual. Examples include credit underwriting, fraud detection, market and liquidity risk management, customer due diligence, and regulatory reporting. In these contexts, misgoverned AI can lead to consumer harm, regulatory breaches, and systemic risk, which regulators across jurisdictions now recognize explicitly.

Supervisory bodies have responded by extending existing model risk management (MRM) expectations to AI, emphasizing explainability, documentation, and continuous monitoring. At the same time, horizontal initiatives such as the EU AI Act classify many financial AI systems as “high risk”, imposing additional obligations around data quality, transparency, human oversight, and post-market monitoring. Industry frameworks show that effective AI governance in finance combines robust risk management, regulatory compliance, and ethical safeguards, supported by centralized oversight and cross-functional collaboration.

However, many institutions still struggle to translate high-level expectations into operational, scalable governance structures that work across hundreds or thousands of models, data pipelines, and business units. This paper addresses that gap by proposing a multilayer governance framework specifically designed for AI in large-scale enterprise financial systems, with formal metrics and reference diagrams to guide implementation.

The remainder of the paper is organized as follows. Section 2 reviews existing work on AI in finance, AI governance, and model risk management. Section 3 presents a conceptual model of AI-enabled enterprise financial systems. Section 4 introduces the multilayer governance framework with associated formulas and

diagrams. Section 5 describes an implementation blueprint for large institutions, including organizational structures and processes. Section 6 offers a case illustration for credit risk and AML use cases. Section 7 discusses implications and future directions, and Section 8 concludes.

## 2. Literature and Regulatory Background

### 2.1 AI in financial services

AI applications in financial services span across front, middle, and back office functions. On the customer side, AI supports robo-advisory, personalization, and next best offer recommendations. In risk and finance functions, AI models are used to predict credit defaults, estimate value-at-risk, and generate early warning indicators from high dimensional, real time data. In compliance, AI assists automated transaction monitoring, sanctions screening, and regulatory reporting, improving detection rates and reducing manual workload.

These developments have demonstrated substantial accuracy and efficiency gains relative to traditional logistic regression or rule-based systems, but they also increase model complexity and reliance on opaque features and architectures. Complex models can be harder to explain, validate, and monitor, which directly affects their governability in heavily regulated environments. The combination of nonlinearity, high-dimensional features, and data dependencies complicates traditional validation approaches and challenges existing MRM practices.

### 2.2 AI governance concepts

AI governance refers to the policies, practices, and controls that ensure AI systems are developed, deployed, and monitored in a responsible, compliant, and ethical manner. In financial services, AI governance aims to:

- Ensure transparency and explainability of AI-driven decisions
- Protect customer privacy and data
- Manage AI model risk within enterprise risk frameworks
- Comply with sectoral regulations and horizontal AI rules
- Prevent unfair, discriminatory, or otherwise harmful outcomes

Common elements of AI governance frameworks include centralized oversight, clear accountability, and cross-functional collaboration among risk, compliance, legal, IT, and data science. Centralization reduces fragmented oversight, supports consistent policies and controls, and enables coordinated incident response and third-party risk management. At the same time, AI governance must be flexible enough to accommodate diverse business lines, local regulations, and rapidly evolving AI technologies.

### 2.3 Model risk management and regulation

Traditional model risk management guidelines, such as the U.S. Federal Reserve's SR 11-7 and similar guidance, require financial institutions to inventory models, validate them independently, document their design and assumptions, and monitor their performance over time. These expectations now explicitly apply to AI and ML models, including vendor and third-party systems, with institutions remaining responsible for understanding and managing associated risks.

Regulatory initiatives such as the EU AI Act and other AI-specific regulatory instruments introduce AI-specific obligations, including classification of high-risk AI systems, data governance requirements, transparency obligations, and human oversight mechanisms. Supervisors are increasingly asking for:

- AI model inventories and classification
- Governance committees responsible for AI risk
- Interpretability and explainability tools
- Bias detection and fairness assessments
- Comprehensive audit logs for AI behavior and decision-making

Recent research argues for bridging AI governance and financial regulation through integrated frameworks that treat AI risk as an extension of model risk while incorporating ethical principles and AI-specific metrics. This integrated perspective underlies the framework developed in this paper.

## 3. Conceptual Model of AI-Enabled Enterprise Financial Systems

### 3.1 System components

A large enterprise financial system that uses AI can be conceptualized as a multilayer architecture comprising five main layers:

1. Data layer: internal and external datasets, data pipelines, data quality controls, and metadata repositories.
2. Model layer: AI and non-AI models, feature stores, training and validation workflows, model registries, and explainability tools.
3. Application layer: business applications such as credit decision engines, AML monitoring platforms, risk dashboards, and customer-facing channels.
4. Integration and infrastructure layer: APIs, message buses, orchestration platforms, and infrastructure-as-code for deploying and scaling AI services.
5. Governance and oversight layer: policies, committees, risk controls, documentation, monitoring dashboards, and audit trails.

These layers interact within a broader enterprise context that includes human decision makers, regulators, customers, and external data providers. Governance must therefore operate not only at the model level, but across data, systems, and organizational structures.

### 3.2 Conceptual architecture (Figure 1)

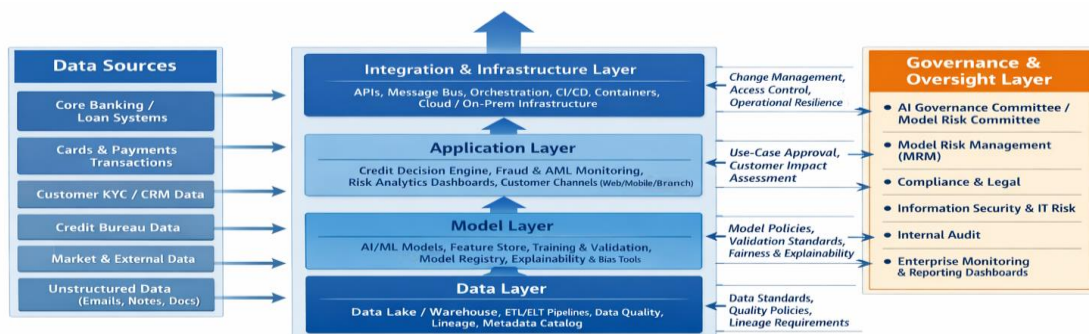


Figure 1. Conceptual Architecture Of AI-Enabled Enterprise Financial System

## 4. Multilayer AI Governance Framework

### 4.1 Governance layers

Building on the conceptual architecture, the proposed framework defines four main governance layers:

1. Data governance layer: quality, lineage, privacy, representativeness, and drift of data used for AI.
2. Model governance layer: development, validation, approval, documentation, fairness, robustness, and explainability of AI models.
3. System and operations governance layer: deployment, access control, change management, incident response, and technical monitoring.
4. Organizational and ethical governance layer: committees, roles and responsibilities, policies, training, culture, and alignment with regulatory and ethical norms.

Each layer contains controls and metrics that can be formalized mathematically to support measurable, auditable governance.

### 4.2 Data governance metrics and formulas

Let  $D$  denote the dataset used to train or operate an AI model, with records  $x \in D$ .

#### (a) Data quality score

Define a data quality function  $Q(x) \in [0,1]$  capturing completeness, validity, and consistency for a record. The overall data quality score is

$$Q(D) = (1 / |D|) \sum_{x \in D} Q(x)$$

Institutions can set thresholds  $Q(D) \geq \theta_Q$  (for example,  $\theta_Q = 0.95$ ) as a precondition for model training or deployment.

#### (b) Representativeness and coverage

For a protected attribute  $A$  with categories  $a \in \Omega$ , define the empirical distribution in the dataset as

$$p_D(a) = |\{x \in D : A(x) = a\}| / |D|$$

Monitoring  $p_D(a)$  across time and portfolios supports identification of underrepresented groups, informing fairness and regulatory expectations. For example, a minimum coverage constraint can be defined as

$$p_D(a) \geq \lambda_a \text{ for all } a \text{ in the set of categories } \Omega$$

for predefined lower bounds  $\lambda_a$ .

### (c) Data drift

Let  $D_{\text{train}}$  be the training data and  $D_{\text{prod}}(t)$  the production data at time  $t$ . A common drift metric is the Population Stability Index (PSI) for a feature  $f$ :

$$PSI_f(t) = \sum \text{over } i \text{ of } (p_i^{\text{train}} - p_i^{\text{prod}}(t)) \times \ln(p_i^{\text{train}} / p_i^{\text{prod}}(t))$$

where  $p_i^{\text{train}}$  and  $p_i^{\text{prod}}(t)$  are the proportions of observations in bin  $i$  for feature  $f$  in training and production distributions. Thresholds for  $PSI_f(t)$  can trigger reviews or retraining (for example, values above 0.25 considered significant drift).

## 4.3 Model governance metrics and formulas

Consider a binary decision problem with true label  $Y \in \{0,1\}$  and model prediction  $\hat{Y}$ .

### (a) Predictive performance

Core performance metrics include area under the ROC curve (AUC), accuracy, precision, recall, and calibration. Define true positive rate (TPR) and false positive rate (FPR) at threshold  $\tau$ :

$$\begin{aligned} TPR(\tau) &= TP(\tau) / (TP(\tau) + FN(\tau)) \\ FPR(\tau) &= FP(\tau) / (FP(\tau) + TN(\tau)) \end{aligned}$$

Here TP, FP, TN, and FN denote counts of true positives, false positives, true negatives, and false negatives at threshold  $\tau$ .

### (b) Fairness metrics

For a protected attribute  $A$ , one common fairness metric is demographic parity. Let  $P(\hat{Y} = 1 | A = a)$  and define a fairness deviation measure as

$$\Delta_{DP} = \max_{a, a' \in \Omega} |DP(a) - DP(a')|$$

A policy may require  $\Delta_{DP} \leq \varepsilon_{DP}$  for some fairness tolerance  $\varepsilon_{DP}$ . Another metric is equalized odds, which seeks approximate equality of TPR and FPR across groups. Let

$$\begin{aligned} TPR_a &= P(\hat{Y} = 1 | Y = 1, A = a) \\ FPR_a &= P(\hat{Y} = 1 | Y = 0, A = a) \end{aligned}$$

Equalized odds requires  $TPR_a \approx TPR_{a'}$  and  $FPR_a \approx FPR_{a'}$  for all  $a, a'$ . A deviation metric is

$$\Delta_{EO} = \max \text{ over all pairs } a, a' \text{ of } (|TPR_a - TPR_{a'}| + |FPR_a - FPR_{a'}|)$$

### (c) Robustness and stability

Let  $f$  denote the model, and  $x$  an input. For a small perturbation  $\delta$  with  $\|\delta\| \leq \varepsilon$ , define a local robustness indicator  $R(x) = \sup \text{ over all } \delta \text{ where } \|\delta\| \leq \varepsilon \text{ of } |f(x + \delta) - f(x)|$

An average robustness score over a validation set  $V$  is  $R(V) = (1 / |V|) \times \sum \text{ over all } x \in V \text{ of } R(x)$   
Lower values indicate greater local stability, which is desirable in volatile financial environments.

### (d) Explainability metrics

Let a local explanation method produce a feature importance vector  $e(x) \in \mathbb{R}^d$  for input  $x$ . A sparsity measure can be defined as  $S(x) = \|e(x)\|_0 / d$  where  $\|e(x)\|_0$  counts the number of non-zero components. A lower  $S(x)$

indicates more concise explanations. One can also track the variance of explanations across similar inputs to measure consistency.

#### 4.4 System and operations governance metrics

System and operations governance focus on the reliability, security, and control of AI systems in production. Key metrics include:

- Service availability – percentage uptime over a reference period (e.g., 99.9% monthly).
- Change management quality – proportion of deployments following approved change processes.
- Access control – number of privileged users with deployment or override rights, and frequency of access reviews.
- Monitoring coverage – proportion of models with automated monitoring for performance, drift, and fairness.

Let  $M$  be the set of AI models in production. A monitoring coverage ratio is

$$C_{mon} = \frac{|\{ m \in M : \text{monitoring enabled for } m \}|}{|M|}$$

Institutions should target  $C_{mon} \approx 1$ , especially for high-risk models.

#### 4.5 Organizational and ethical governance

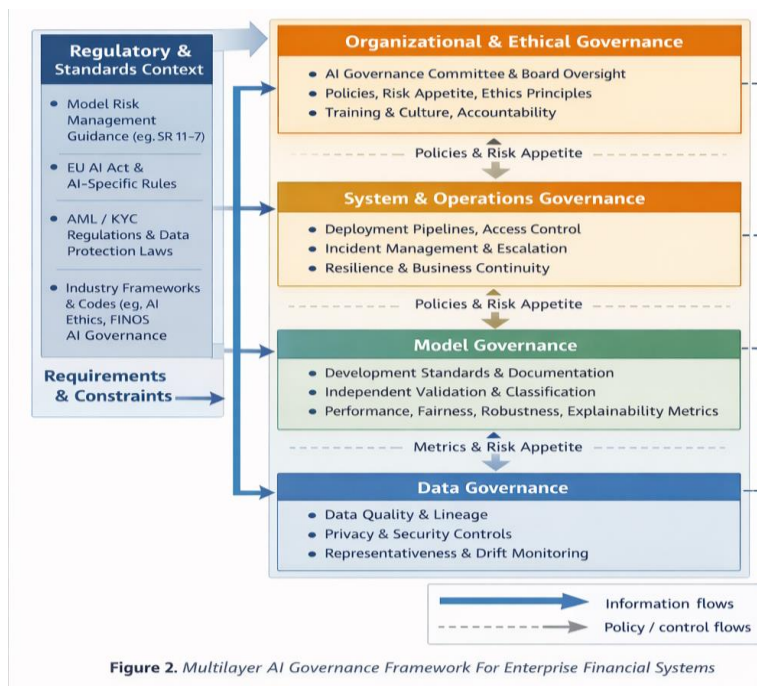
At the organizational level, governance structures typically include an AI governance committee operating under or alongside the model risk committee. Responsibilities include:

- Approving and reviewing AI policies and standards.
- Reviewing high-risk AI models and use cases.
- Resolving conflicts between innovation and risk management.
- Overseeing AI model inventories and classification.
- Coordinating with regulators and internal audit.

Key indicators of governance maturity include:

- Proportion of high-risk AI systems reviewed annually by the AI governance committee.
- Number of documented AI-related incidents and average time to resolution.
- Proportion of relevant staff trained in AI ethics and governance topics.

#### 4.6 Multilayer governance framework (Figure 2)



## 5. Implementation Blueprint for Large Institutions

### 5.1 Centralized versus federated governance

A practical question is whether AI governance should be centralized or federated. Purely local governance can lead to inconsistent policies and oversight gaps, while overly centralized structures may be slow and disconnected from business realities. Many institutions adopt a hybrid approach:

- A central AI governance function sets enterprise-wide policies, maintains AI model inventories, and runs central committees and monitoring platforms.
- Business units implement these policies, manage local models and data, and escalate high-risk issues to the central function.

This hybrid model supports consistency and accountability while allowing adaptation to local regulatory and business contexts.

### 5.2 Roles and responsibilities (RACI)

A RACI-style allocation of roles clarifies accountability across the three lines of defense:

- **Model owner (first line)** – Responsible for model development, documentation, and first-line monitoring.
- **Business owner (first line)** – Responsible for use-case definition, decision policies, and embedding of model outputs into processes.
- **Model risk management (second line)** – Responsible for independent validation, risk classification, and adherence to MRM standards; Accountable for model risk policies.
- **Compliance and legal (second line)** – Consulted on regulatory interpretations and responsible for ensuring AI use complies with applicable laws.
- **AI governance committee (senior oversight)** – Accountable for the approval of high-risk AI systems and resolution of cross-cutting issues.
- **Internal audit (third line)** – Provides independent assurance on the effectiveness of AI governance and control design.

### 5.3 AI model inventory and classification

An AI model inventory records all AI and ML models, their purpose, risk classification, ownership, and governance status. Typical fields include:

- Model ID, name, and business owner.
- Use-case description and criticality.
- Input data sources and any protected attributes.
- Key performance and fairness metrics.
- Risk rating (e.g., low/medium/high) based on impact and complexity.
- Validation status, approvals, and next review dates.

A simple model risk score  $R_m$  for model  $m$  can be defined as

$$R_m = w_1 I_m + w_2 C_m + w_3 O_m,$$

where  $I_m$  denotes impact (e.g., customer harm or financial loss potential),  $C_m$  denotes technical complexity, and  $O_m$  denotes opacity (e.g., difficulty of explaining the model), and  $w_1$ ,  $w_2$ ,  $w_3$  are weights reflecting institutional priorities. Models above a threshold  $R_m \geq \theta_R$  may be classified as high risk and subject to enhanced governance.

### 5.4 Lifecycle governance and gates

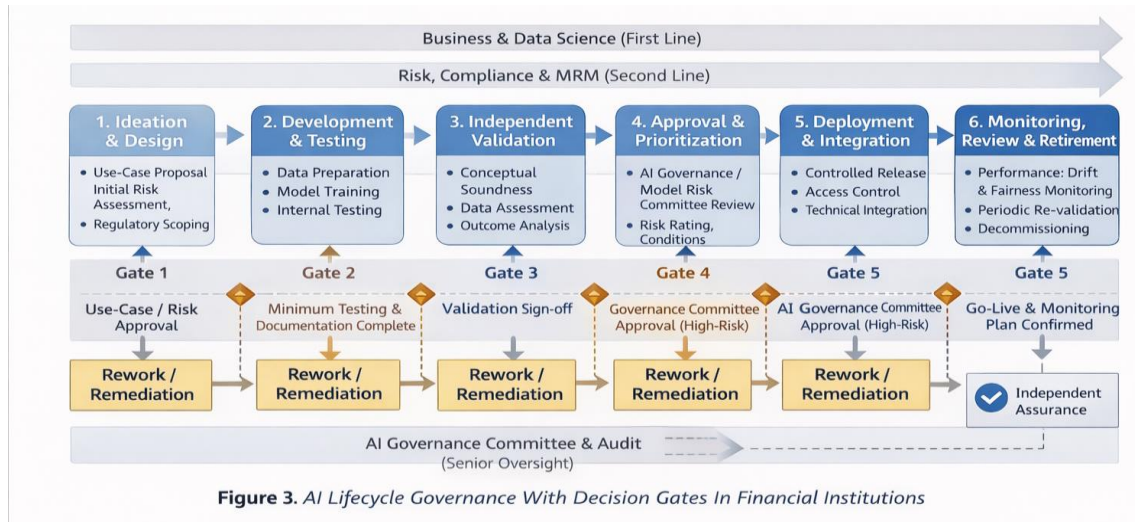
Governance can be structured around the AI lifecycle with formal decision gates:

- **Ideation and design** – initial risk assessment, regulatory scoping, preliminary fairness considerations.
- **Development and testing** – data preparation, model training, internal testing, and documentation.
- **Independent validation** – second-line validation of conceptual soundness, data suitability, and outcome analysis.
- **Approval and prioritization** – AI governance or model risk committee approval for high-risk models.

- **Deployment and integration** – controlled release to production with change management and access controls.
- **Monitoring, review, and retirement** – continuous performance, drift, and fairness monitoring; periodic revalidation; eventual decommissioning.

At each gate, specific artifacts (documentation, validation reports, monitoring plans) and metrics (e.g., minimum AUC, maximum  $\Delta_{DP}$ , acceptable PSI ranges) must be satisfied.

### 5.5 AI lifecycle governance diagram (Figure 3)



## 6. Case Illustration: Credit Scoring and AML Monitoring

### 6.1 Credit scoring use case

Consider an AI-based credit scoring model used to approve or decline consumer loans. Inputs may include applicant demographics, income, credit history, behavioral patterns, and other relevant factors. Outputs include predicted probability of default (PD) and a decision (approve, decline, refer).

**Data governance:** Data governance requires accurate, timely, and representative input data. Data quality metrics such as  $Q(D)$  must exceed defined thresholds, while representativeness metrics  $p_{D(a)}$  guard against exclusion of particular groups. Data drift metrics such as  $PSI_f(t)$  help detect shifts in applicant profiles that may degrade performance.

**Model governance:** Model governance encompasses performance, calibration, and fairness. For example, PD estimates may need to satisfy calibration constraints such as

$$\mathbb{R}[Y | \hat{p} \in B_j] - \hat{p}_j \leq \varepsilon_{cal},$$

for bins  $B_j$  of predicted probability  $\hat{p}$  with average  $\hat{p}_j$ . Fairness metrics such as  $\Delta_{DP}$  or  $\Delta_{EO}$  are monitored across protected groups. If fairness deviations exceed policy thresholds, remediation options include model retraining with constraints, post-processing adjustments, or policy overlays (e.g., human review for borderline cases).

**Explainability:** Many jurisdictions require providing reasons for adverse decisions (e.g., declines). Local explanation techniques produce feature attributions  $e(x)$  at the case level, which can be translated into human-readable reason codes. Governance requires explainability thresholds, for example:

$$S(x) = \|e(x)\|_0 / d \leq \theta_S$$

to ensure that explanations are not overly complex.

**System and organizational controls:** System-level controls ensure only validated and approved models are deployed, with rollback mechanisms and alerting on anomalies. Organizational controls require that the AI governance committee reviews the credit model as a high-risk system, given its potential impact on customers and capital, and that internal audit periodically reviews the effectiveness of these controls.

## 6.2 AML monitoring use case

AI is increasingly used to enhance AML transaction monitoring, aiming to reduce false positives while identifying complex patterns of suspicious activity. Models may analyze sequences of transactions, customer profiles, counterparties, and network structures to produce alert scores.

**Data governance:** AML data is typically gathered from multiple systems and geographies, raising issues of data integration, consistency, and legal constraints (e.g., data localization, privacy). Data quality and completeness are critical, as missing or inconsistent data may hide suspicious patterns. Governance must ensure proper handling of sensitive information and adherence to data retention rules.

**Model governance:** In AML, performance metrics often include true positive rate with respect to confirmed suspicious cases and false positive rate relative to all alerts. A typical objective might be to maximize TPR subject to a maximum FPR (or workload constraint), which can be formalized as:

$$\text{threshold } \tau \text{ that maximizes } TPR(\tau) \text{ while keeping } FPR(\tau) \leq \alpha$$

for a desired maximum  $\alpha$ . Authorities emphasize that institutions must understand and be able to explain their models, including features and logic, even when using advanced techniques. Audit logs of model inputs, outputs, thresholds, and investigator actions support regulatory audits and model reviews.

**Fairness and profiling:** Fairness considerations include avoiding unjustified profiling of particular customer segments, geographies, or industries. While AML inherently targets higher-risk profiles, governance must ensure that those risk definitions are grounded in legitimate risk factors and that models do not over-amplify spurious correlations.

**System and organizational controls:** System-level testing includes stress scenarios (e.g., sudden spikes in specific transaction types, introduction of new payment rails). Contingency plans ensure detection remains functional if the AI model fails or is disabled. Organizationally, strong collaboration between AML, compliance, data science, and IT is essential, and AI governance committees must consider cross-border regulatory differences.

## 6.3 Comparative overview

Table 1 summarizes key governance emphases for credit scoring and AML AI use cases.

Table 1: Governance aspects of credit scoring AI vs. AML monitoring AI

Aspect	Credit scoring AI	AML monitoring AI
Primary risk focus	Credit, conduct, fairness	Financial crime, regulatory non-compliance
Key performance metrics	PD calibration, AUC, TPR/FPR	TPR/FPR, alert quality, investigator workload
Fairness considerations	Non-discrimination, access to credit	Avoid unjustified profiling of segments or geographies
Explainability expectations	Adverse action reasons, customer impact	Regulator understanding of alert logic and model behavior
Data governance focus	Representativeness, drift in applicant populations	Data integration, legal constraints, consistency of transactional data
Main oversight stakeholders	Retail credit, risk, MRM, AI governance committee	AML, compliance, MRM, AI governance committee

## 7. Discussion

### 7.1 Alignment with regulatory trends

The proposed multilayer framework consolidates themes emerging from supervisory expectations and policy debates: treating AI as an extension of model risk, implementing continuous monitoring, maintaining comprehensive documentation and audit logs, and embedding ethical and fairness considerations into governance structures. Regulatory initiatives encourage AI governance committees, AI model inventories, and collaboration between technical and control functions, all explicitly reflected in the framework.

By mapping governance layers to formal metrics and lifecycle gates, institutions can better demonstrate compliance both qualitatively and quantitatively, and respond to supervisory reviews with evidence rather than only narrative descriptions. Metrics such as  $Q(D)$ ,  $PSI_f(t)$ ,  $\Delta_{DP}$ , and  $C_{mon}$  provide a concrete basis for governance decisions and oversight.

## 7.2 Practical challenges

Implementing a multilayer AI governance framework in large organizations poses challenges. First, reconciling heterogeneous legacy systems, data silos, and local practices with centralized policies requires significant investment in data and model infrastructure, tooling, and change management. Second, measurement of fairness, explainability, and robustness is still an evolving science; different metrics sometimes conflict or are hard to interpret for non-technical stakeholders.

Third, recruiting multidisciplinary teams that combine expertise in AI, risk management, compliance, legal, and ethics remains difficult in a competitive labor market. There is also a risk that overly rigid governance may stifle innovation if not designed with proportionality and flexibility, especially for lower-risk applications. Conversely, insufficient governance exposes institutions to reputational and regulatory risk. Balancing these tensions is a key role of AI governance committees and senior leadership.

## 7.3 Future directions

Future work could extend the framework in several directions. One avenue is to develop standardized taxonomies and metrics for AI model risk in finance that can be shared across institutions and regulators, enabling benchmarking and convergence of best practices. Another is to integrate AI governance with environmental, social, and governance (ESG) reporting, recognizing that AI-driven decisions may have broader societal impacts.

A further direction is to explore how AI itself can support governance, for example by automating documentation generation, detecting anomalies in model behavior, or prioritizing incidents. Finally, empirical research and case studies could evaluate the effectiveness of the proposed framework in practice, including its impact on model risk outcomes, compliance findings, and stakeholder trust.

## 8. Conclusion

AI is now integral to large-scale enterprise financial systems, offering significant benefits while introducing new governance challenges. Regulators and industry practitioners converge on the need for AI governance that is traceable, explainable, and consistent, building on model risk management foundations while adding AI-specific metrics and ethical safeguards.

This paper has proposed a multilayer governance framework spanning data, model, system, and organizational dimensions, supported by formal metrics, lifecycle gates, and reference diagrams. By adopting such a framework, financial institutions can better manage AI model risk, comply with evolving regulations, and build trust with customers, regulators, and society. The case illustrations for credit scoring and AML monitoring demonstrate how the framework can be instantiated in practice, although further empirical evaluation and refinement will be necessary as AI and regulatory landscapes continue to evolve.

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