

AI-Ready Data Governance: A Five-Pillar Framework for Multi-Enterprise Integration

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Background: The proliferation of artificial intelligence systems in complex enterprises and financial institutions creates unprecedented challenges in data governance, particularly when some institutions must share infrastructure while maintaining competitive independence. **Problem:** Current governance frameworks fail to address the unique requirements of supplying multiple AI systems with consistent, high-quality data across federated enterprise environments. **Method:** This paper introduces a five-pillar framework—Standards, Data Catalogue, Data Models, Data Stewards, and AI Use Cases—validated through implementation across a multi-enterprise Databricks platform. **Contributions:** Demonstrated reduction in MVP development time, reduction of technical debt, and high level data quality scores through systematic orchestration patterns. **Implications:** Establishes a scalable paradigm for AI-human collaboration in enterprise or financial services, where proper data management determines whether AI systems enhance or destroy value.

Keywords: Multi-enterprise data governance, AI systems integration, Unity Catalog, data orchestration, regulatory compliance, AI data preparation

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