

Cloudera and NVIDIA Accelerate AI in the Financial Services Industry

The financial services industry is rapidly transforming and is fueled by data, analytics, and AI. To stay competitive, institutions must adopt modern platforms. Cloudera empowers organizations to harness their data's full potential to build and deploy AI that innovates, enhances decision-making, and achieves operational excellence with competitive differentiation.

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Seizing the AI Opportunity and Building the Foundation for Success

Financial organizations are eager to harness AI's transformative power, recognizing its potential while understanding that strong data management is a critical component of strong AI. Each AI use case requires a strong foundation—a modern platform that supports building trusted data sources, with AI development, deployment, and production at scale to achieve its potential.

With the right platform, firms can:



Seamlessly process vast amounts of structured and unstructured data in real time.



Unify and govern data for deeper insights and smarter decision-making.



Strengthen fraud detection, risk management, and compliance.



Elevate customer experiences through personalized, data-driven interactions.

"A unified, hybrid data, analytics, and AI platform equips financial institutions to fully realize the potential of AI to drive growth and innovation."



Stephen Catanzano, Senior Analyst,
ENTERPRISE STRATEGY GROUP

Top 3 AI Use Case Categories in Financial Services Organizations



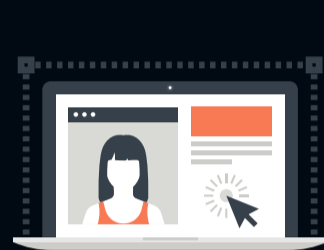
1. Risk management and reduction (27%–40%)

Financial institutions prioritize reducing risk through AI-powered use cases, including credit report generation (37%), credit risk assessment (35%), and fraud detection (28%). These capabilities enhance accuracy and speed in risk modeling (31%), fraud prevention (28%), and options pricing (27%).



2. Process automation (27%–32%)

Automation is transforming operations, with 32% of respondents reporting that their organization is pursuing or planning to pursue automated data entry. AI streamlines tasks like contract and document review (30%) and automated report generation (27%), improving efficiency and lowering costs.



3. Customer insights and personalization (24%–31%)

Delivering tailored experiences is key, with 31% of organizations focusing on customer insights. Use cases like personalized marketing and sales (27%) and portfolio optimization (24%) are reshaping how financial institutions engage with customers.

Analytics, business intelligence, data management, traditional AI, and generative AI are—at a minimum—important to nearly all organizations, highlighting the potential for significant growth in the financial services market.

Top Technology Priorities – Ranked as Very Important

59%

Analytics and business intelligence

57%

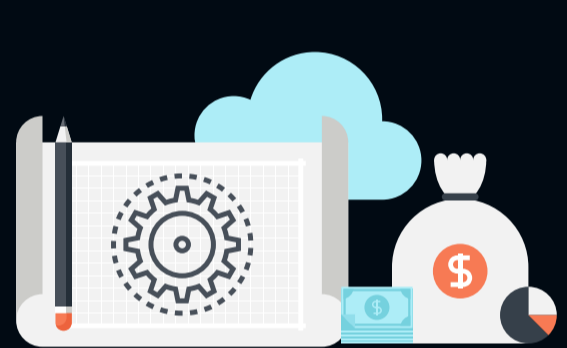
Data management

55%

Artificial Intelligence

50%

Generative AI



Hybrid Infrastructure Preferences

Organizations are looking for the flexibility offered by multi-cloud and hybrid environments to manage their costs, technology preferences, and vendor choices.

66%

of organizations reported the need for a hybrid environment with the flexibility to manage their environment on premises and in a single or multiple cloud environment.

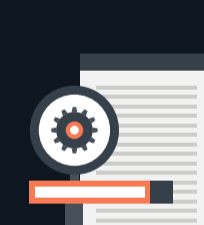
79%

said they must use AI in business and mission-critical processes to compete better.

Cloudera AI and NVIDIA: Empowering End-to-end AI Deployment

Financial firms can build, scale, and deploy AI use cases faster using Cloudera AI, powered by NVIDIA's accelerated computing and AI software. This solution enables organizations to transform their trusted data into actionable insights, taking AI projects from development to production with unmatched performance and agility.

Key features of Cloudera AI include:



RAG Studio

Accelerates the creation of retrieval-augmented generation (RAG) applications by leveraging knowledge graphs and vector search for enhanced contextual AI systems.



Fine-Tuning Studio

Enables efficient model customization and evaluation for AI applications tailored to financial use cases.



NVIDIA Integration

Delivers high-performance data processing with NVIDIA accelerators and AI software, ensuring real-time analytics and scalability.



Agent Studio

Simplifies the creation and deployment of intelligent AI agents for customer service and process automation.



Data Pipeline Automation

Streamlines data preparation and transformation, ensuring trusted, high-quality data for AI use.



Unified Development Environment

Provides interactive notebooks and prebuilt tools for rapid prototyping and testing of machine learning models.



AI Inference Services

Leverages NVIDIA NIM to quickly deploy and scale AI models, auto-scaling capabilities, and enterprise-class governance.



True Hybrid Deployment

Ensures seamless operations across all deployments, whether on premises, in the cloud, or both.

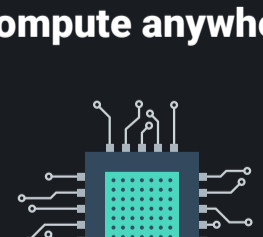
Cloudera AI and NVIDIA give financial firms a robust, integrated platform to confidently build AI applications, unlocking the full potential of trusted data at every stage of the AI lifecycle.

Cloudera AI and NVIDIA: The Ultimate AI Solution for Financial Firms

Cloudera AI with NVIDIA stands out as the optimal choice for financial institutions by seamlessly integrating AI development and production workflows while delivering exceptional performance. This unified platform empowers firms to innovate faster, enhance decision-making, and optimize operations with trusted data at its core.

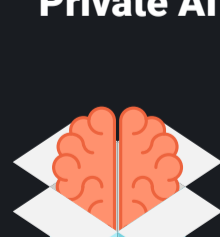
Trusted data lives in Cloudera's open data lakehouse to power enterprises' AI and analytics. The Cloudera solution provides organizations with the following capabilities:

Accelerated compute anywhere



Organizations can access GPUs anywhere and scale AI workloads on NVIDIA-accelerated compute with a better total cost of ownership and return on investment.

Private AI



Organizations can deploy apps and models on the public cloud and on premises securely within their environment.

Any Model



Organizations can deliver enterprise context for any foundational model, LLM, or transformer library.

Applications and agents



Organizations can quickly build agentic apps or AI assistants with Cloudera AI Workbench and deploy using NVIDIA NIM.

Conclusion

Cloudera AI and NVIDIA provide financial organizations with the perfect combination of scalability, speed, and innovation to enable the full potential of AI. By providing trusted data into actionable insights, this solution empowers firms to drive innovation, deliver exceptional customer experiences, and achieve operational excellence. With seamless hybrid deployment, and unmatched performance, Cloudera and NVIDIA are setting the standard for AI success in financial services.

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