![Virtusa Engineering First logo with industrial robotic arms]

Generating business value with AI/ML

Using a production first approach with MLOps

In the age of rapid adoption of AI/ML across the board, the inability to scale and speed the deployments can stifle innovation and customer experience excellence. The complexity of deploying ML solutions in an enterprise and significant computation and storage costs call for a proven strategy and approach to solve this problem. Virtusa's MLOps accelerator-driven scaling of AI/ML solutions and improved deployment velocity helps enterprises significantly improve the ROI on AI/ML investments and enhance customer experience and business value.

MLOps benefits include fast-tracking model development, reproducing and tracing back model results with metadata, accuracy and error metrics monitoring through our built in dashboards, and bias prevention through our model agnostic explanability methods.

Why are clients choosing Virtusa to work with them on this initiative?

Clients partner with Virtusa for their AI/ML initiatives because of our proven production-first approach to leveraging the synergistic strengths of AWS MLOps, SageMaker platforms, and our own MLOps accelerators and frameworks—combining to streamline and automate the enterprise AI/ML journey.

By utilizing these tools, we have achieved the following:

- Reducing the development time for enterprises by 30% - 40%, which allows them to bring their solutions to market faster.

- Helping enterprises scale their AI/ML solutions to reduce deployment time by up to 40% significantly.

- Incorporating Continuous Integration (CI), Continuous Delivery (CD), Continuous Training, model monitoring, and explainability in our approach to ensure that ML-based solutions are repeatable, reliable, and reproducible for enterprises.

Capabilities

Virtusa's capabilities include data and model lineage, model monitoring and governance, containerization, scalability, and explanability and bias management.

With our layered expertise and domain experience, we can help your organization achieve:

Repeatable and reliable ML-based solutions through standardized processes	AI-based transparent decision-making, through explainable AI	Automated data and model versioning support for model parallel pipelines
Data scientist-enabled to focus on ML models with MLOps taking care of the dependencies and tracking	Faster go-to-market through end-to-end automated data and ML pipelines tech debt elimination through	Automation in various aspects of data governance

Partners

Virtusa's capabilities include data and model lineage, model monitoring and governance, containerization, scalability, and explanability and bias management.

With our layered expertise and domain experience, we can help your organization achieve:

AWS MLOps,	AWS SageMaker	Model build workflow	SageMaker model registry
Model deployment pipeline	Model monitoring workflow	Model retraining workflow	

To learn more, contact **marketing@virtusa.com**

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