

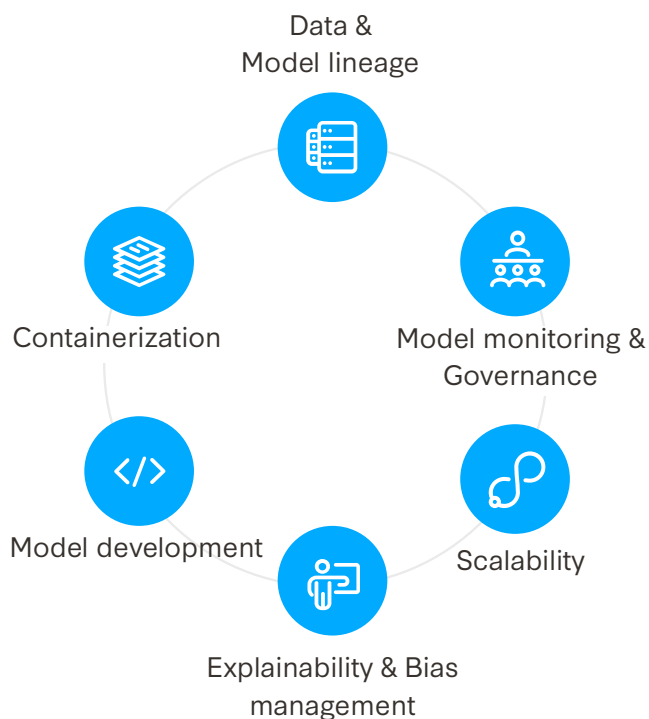


Generating business value with AI

Using 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 will 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.

AWS based Virtusa 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.



- **Fast-track model development** with support for almost every aspect of model development - from data wrangling to model training and validation
- **Reproduce/traceback model results** through our data versioning and model versioning using metadata
- **Deploy onto any target environment (AWS, Kubernetes)** - highly scalable
- **Monitor for model accuracy, error metrics, and data drift** through our inbuilt dashboards
- **Auto-retrain models** seamlessly from the accelerator based on data drift or model drift
- **Prevent bias** through our model agnostic explainability methods
- **Supports integration** for multi-type data ingestion and custom model support

Support for multi cloud platforms

Support for batch and realtime data ingestion

Support for multi pipelines

Why clients are choosing Virtusa

Clients choose Virtusa for their AI/ML initiatives because of its proven Production First approach with AWS-based MLOps accelerators and frameworks, which effectively streamline and automate these initiatives. By utilizing these tools, we have achieved the following:



We have reduced the development time for enterprises by up to 40%, which allows them to bring their solutions to market faster.



Our MLOps practice has helped enterprises scale their AI/ML solutions, significantly reducing deployment time by upto 40%



A comprehensive approach encompassing Continuous Integration (CI), Continuous Delivery (CD), continuous training, model monitoring, and explainability ensures that ML-based solutions are repeatable, reliable, and reproducible for enterprises.

Capabilities



Repeatable and reliable ML-based solutions leveraging AWS MLOps framework and helping achieve a significant reduction in development and deployment times



Support hybrid MLOps solutions for customers who desire on-prem ML development and on cloud scale out using AWS platform and its MLOps framework



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 automated data and model versioning



AI-based transparent decision-making, through explainable AI



Support for model parallel pipelines

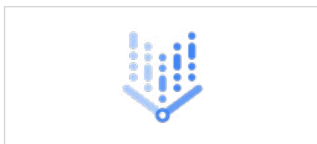
Case studies

Virtusa helps a leading fintech company to migrate its on-prem AI/ML solutions to AWS platform and helping the customer with end-to-end MLOps solution leveraging AWS Sagemaker framework

- Development time reduced by 40% and Deployment time reduced by 50%

Virtusa helps a leading bank with reusability and productionization of NLP summarization solution using MLOps framework - reusability increased by 40% and deployment time reduced by 45%.

Partners



virtusa

Engineering First

virtusa.com