

# Machine Learning Operations on AWS

## Maximize Machine Learning Success

Machine learning (ML) is an instrumental capability in modern app development. Yet, many enterprises struggle to deploy ML models to production, and a vast majority of projects ultimately fail. Complicated model migrations, long deployment cycles, and other issues get in the way of companies reaching their full ML potential.

That's why MLOps, the fusion of machine learning, DevOps, and data engineering, is so important. Through MLOps, organizations can automate the various lifecycle stages of ML algorithms, eliminating key pain points along the way.

ClearScale provides MLOps expertise to companies worldwide, enabling them to train, monitor, and deploy sophisticated ML models at scale. Our team uses a multitude of cloud-native services from Amazon Web Services (AWS) to optimize MLOps workflows so that enterprises can build truly differentiated ML-powered apps.

## Features and Highlights



### Data Collection and Preparation

Gather, prepare, and analyze reliable training data using AWS tools like Data Wrangler, SageMaker Processing, and Ground Truth. Implement robust security and privacy from the ground up, and process large volumes of data quickly for future model development.



### ML Model Development

Use AWS' one-stop IDE, SageMaker Studio, to access managed built-in algorithms, open source models, and pre-built Docker images that speed up the development process. Or, take advantage of SageMaker Autopilot to have AWS create ML models for you based on your data.



### ML Model Training and Tuning

Manage ML experiments, profile training jobs, and optimize costs with SageMaker and other cloud solutions. Let AWS do the hard work of tuning your models and distributing training with GPUs so that you can focus data science and engineering resources elsewhere.



### ML Model Deployment

Configure CI/CD pipelines and set up continuous monitoring to allow your ML engineers to stay on top of usage, consumption, and results. Accelerate your deployment process with serverless orchestration and execute batch transformations to make large-scale predictions.

▶ Ready to take your MLOps to the next level?  
Contact a ClearScale Cloud Expert Today

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## About ClearScale

Founded in 2011, ClearScale provides cloud-native consulting solutions designed exclusively for AWS. Our expert team has helped clients all over the world leverage the power of machine learning to transform their businesses and create new sources of long-term value.