

# AWS MLOps for the Automotive Industry

## Maximize Machine Learning Success for the Modern Automotive Industry

Machine learning (ML) is an instrumental capability in modern application development, especially in the automotive industry. Yet, many companies struggle to deploy ML models to production, and a majority of projects ultimately fail. This reality is particularly concerning given how much automotive technology depends on advanced data analytics and infrastructure.

That's why MLOps - the fusion of machine learning, DevOps, and data engineering - is so important. Through MLOps, automotive enterprises can automate the various lifecycle stages of ML algorithm development and drive key digital transformation initiatives forward.

ClearScale provides the MLOps expertise that automotive companies need to train, monitor, and deploy sophisticated ML models at scale on the Amazon Web Services (AWS) platform. We understand what it takes to capitalize on the many exciting trends in the automotive industry and can help pave your path to innovation.

## MLOps Services



### 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 about your automotive services for future model development.



### ML Model Development

Use AWS's 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 driving data, automotive market trends, and more.



### 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 about your automotive offerings and customers.

▶ Ready to take your MLOps to the next level?  
Contact a ClearScale Machine Learning 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 worldwide, including businesses in the automotive industry, leverage the power of machine learning to transform their organizations and create new sources of long-term value.