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# NeuralOps

## by quantiphi

## Simplify Machine Learning Operations and Deployment

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# Simplify ML Operations with NeuralOps

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**1000+**
AWS Certified
Professionals

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## AWS COMPETENCIES

- Machine Learning Competency
- Conversational AI Competency
- DevOps Competency
- Financial Services Competency
- Migration Competency
- Digital Customer Experience
- Data & Analytics Competency

## NeuralOps
by **quantiphi**

Quantiphi's NeuralOps Offering is an AWS Native services Platform that follows Build, Test & Release cycle for enterprise scale ML solutions NeuralOps enables enterprises to reuse their machine learning infrastructure assets, build repeatable automation, and ease through the cycle of machine learning solution development to production.

## Solution Features

- End to end operations management of ML solution lifecycle
- Enforces reusability of the ML assets across the enterprise
- Prepacked components allow users to hit the ground running from day 1
- Governed workflow ensures best practices of solution development are followed
- Ability to not just use but create assets that are unique to a customer's needs

## Case Studies

### NeuralOps Command Centre

- Developed a NeuralOps Command Centre, an Unified platform for 360 view & end to end control of NeuralOps workflow.

- The solution involved building different types of ML, CI/CD pipeline & automating them across experimentation and production environments

**Benefits**

- 70% Increase in operational efficiency
- 40% Increase in revenue

### Automated Inference Pipeline

- Built an automated training pipeline in a fully configured environment which requires minimum manual intervention.

- Developed a framework to allow users to bring their own code for large scale model training

**Benefits**

- 65% Increase in operational efficiency
- 35% Decrease in manual effort

### NeuralOps Platform

- Developed a machine learning framework which includes data preparation & preprocessing operations, a one-click ML model training and inference pipelines and a framework to evaluate model performance at regular intervals

**Benefits**

- 60% Increase in operational efficiency
- 30% Increase in revenue

**Technical Stack**

Amazon SageMaker

Amazon EKS

AWS Lambda

Amazon CloudWatch

Amazon DynamoDB

Amazon Redshift

AWS S3

## Case Study

How did Venterra Realty streamline its AI/ML development and deployment lifecycles by implementing **the best MLOps practices?**

### FROM THE CUSTOMER

Quantiphi helped us considerably with our AI/ML processes by implementing the best MLOps practices. The new infrastructure automated and streamlined our AI/ML development and deployment lifecycles, making us much more productive – the time it took us to put a model in production has now been considerably reduced!"

**– Zahra Kharal (ML Engineer, Venterra Realty)**

## VENTERRA REALTY

## About Venterra Realty

Venterra Realty is one of the premier real estate investment firms specializing in developing, financing, and managing multi-family residential communities in the United States and Canada.

Venterra Realty's Data Science team was adept at solving business problems through ML but faced issues in automating ML workflows on the AWS cloud and managing them in the long term.

## Business Challenges

Data executives typically had little to no real-time visibility into different ML initiatives

Little knowledge of leveraging best practices while building ML solutions on SageMaker

The client had a repetitive workload and was spending redundant efforts as they did not have robust AI/ML processes and needed to standardize them

## Solution

To help customers in their current ML process automation and set a strong foundation for the long-term success of ML initiatives at the enterprise, Quantiphi deployed a packaged solution built on top of SageMaker called **NeuralOps**.

This centralized platform supports machine learningand deep learning algorithms applicable across business use cases. The solution facilitates users to train, deploy and manage the entire lifecycle of ML solutions across domains like computer vision, NLP, statistics, time series, etc.

The platform's well-governed workflows enable the client to organize their ML assets and streamline ML solution development and deployment. The platform automates over 90% of the most common ML tasks with ready-to-use prepackaged components.



NeuralOps
by quantiphi

## Business Impacts



Improved the time to release by 70%, reducing it to approximately 2 weeks

Provided users with the flexibility to work with their own code

Improved infrastructure utilization through SageMaker jobs

Reduced manual efforts for infra set-up and configuration



Reach out to

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