

MLOps Pre-packaged Pipeline Powered by Orange Business Services

Basic offer from 20k€⁽¹⁾
Full offer on quotation



Automate the retraining and the deployment of your ML models
Ensuring best quality and supervision of your Artificial Intelligence solutions

Presently, data science is a key stake for many companies. All advantages coming from deploying Machine Learning and Artificial Intelligence solutions are uncountable. However, productizing such applications is time consuming and often requires an expertise not met internally nor externally.

In order to tackle these challenges, Orange Business Services has developed a MLOps pipeline. It is an easily and quickly deployable solution built on AWS infrastructures aiming to automate the retraining and the deployment of Machine Learning & Artificial Intelligence models.



Orange Business Services' solution MLOps on top of AWS pipeline

Orange Business Services offers an asset-based solution to support its customers to deploy a custom made MLOps pipeline. It is up to 60% faster⁽²⁾ and is presenting higher development quality than deploying it from scratch. This is made possible by leveraging a pre-developed AWS-built MLOps setup.

This asset-based solution solves current issues of deploying ML models into the production environment and keeping them up to date by automating this entire ML model creation and deployment process, whilst guaranteeing test coverage, continuous integration and model monitoring.

Basic offer – from 20k€⁽¹⁾

- Pre-packaged solution
- Implementation of the MLOps pipeline and customization to specific needs
- Image recognition model set up and deployment in the MLOps pipeline
- Data collection, cleaning and preprocessing
- Set up of AWS accounts and VPN Gateway

Full offer - on quotation

- Deployment of already existing customer's ML models in the MLOps pipeline
- Implementation and set up of new ML models
- VPN access, peering / routing / connection
- Tailor-made features
- MLOps pipeline as a 100% managed service

Benefits

Kick-start the development of your MLOps AWS solution, with our asset-based service, instead of developing a pipeline from scratch.



Reduced time to go live

Using such an asset-based service reduces the time necessary to go live by up to 60%⁽²⁾



Ready to use MLOps setup

Operative technical asset with MLOps pipeline to automate & deploy every new Machine Learning and Artificial Intelligence solution



State-of-the-art MLOps setup

A holistic and 100% AWS based approach for model training, model testing, and model deployment into production



Increased MLOps quality

Tested solution to reduce the number of errors encountered during implementation, increasing build quality as well

Orange Business Services on AWS

The AWS platform offers a great number of tools and components to build production-ready MLOps pipelines. To unlock the power of these cloud native components a skilled team of experts is required. Orange Business Services is providing the expertise as well as the asset of a ready-to-deploy MLOps setup. Orange Business Services' AWS certified experts will implement and customize its MLOps pipeline solution to bring its customers successfully to the end of their Machine Learning journey.

Features



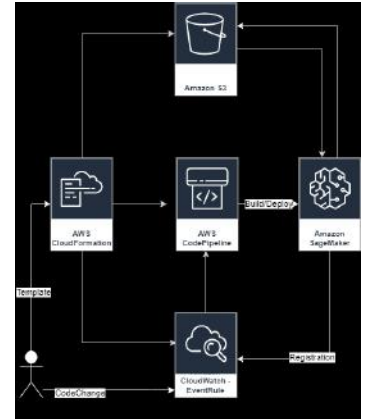
Customized MLOps setup for individual ML algorithm

To reduce complexity and time the solution abstracts away the complexity of adding your own training and inference setup by enabling setup in one single entry point. This approach reduces complexity and time needed to go live. The solution uses state-of-the-art AWS predefined run times and software container-based setups for SageMaker serverless model training and inference execution.



Easy instantiation of your customized AWS MLOps Setup

The solution lets you easily setup your MLOps infrastructure setup along with your own code repositories and your own naming conventions. This enables individualized setup for storage, model storage and feature set storage, thereby instantiating a newly deployed automated AI solution utilizing continuous integration and testing.



Example: MLOps for the categorization of newsletters

Challenge

Bring customer's own model to an AWS MLOps solution

The customer had versioned code but no model or hyperparameter versioning available to enable better Machine Learning experimentation tracking.

Customer needed to be able to track and revert model and deployment changes.

Solution

Enable a one stop MLOps AWS setup for model training and deployment

By leveraging AWS tool sets we enabled the customer to easily setup their own configurable ML experimentation and deployment setup.

Results

New ML models' deployment accelerated and auto-updated

The solution enabled the customer to consistently train and deploy previously developed models in a time sensitive manner to AWS utilizing several automatic tracking and versioning for model creation, execution, result tracking and error handling.

How to get started with Orange Business Services solutions

Orange Business Services sales representatives can be contacted through the [AWS Marketplace](#), the Orange Business Services [website contact form](#) or using the email address: contact-marketplace@um-orange.com.