Teradata ModelOps Overview

Machine Learning Operations (MLOps) is a methodology that unifies Machine Learning (ML) model solution development (the ML element) with ML solution operations (the Ops element). ModelOps, is a subset of MLOps that specifically focuses on the deployment, monitoring, and management of machine learning models in production environments. While MLOps is known to help data science processes with automation, ModelOps aims to bridge the gap between the development and operational phases of a model's lifecycle, enabling seamless integration of models into business processes and applications.

The ClearScape Analytics ModelOps product manages the operationalization of advanced analytics in Teradata Vantage. The ModelOps product also provides an easy-to-use web-based user interface (UI), a command line interface (CLI) and Python or R Software Development Kit (SDK) to handle advanced analytical model deployment and operationalization in Vantage.

Teradata ModelOps Deployment Requirements to be provided by e& (Etisalat Egypt)

Feature	Starter (min requirements)	Standard
Server Size		
CPU	8 (the more the better)	24 (the more the better)
Memory	64 GB (the more the better)	512 GB (the more the better)
Disk Space	1TB+ (the more the better)	3 TB+ (the more the better)
OS	RHEL 7.9+ SLES 15 SP6+	RHEL 7.9+ SLES 15 SP6+
Additional notes	x86_64 virtual or bare metal machine	x86_64 virtual or bare metal machine
AI/ML Recommended Deployment Capabilities		
In-Vantage - in-database analytics functions	Supported	Supported
In-Vantage - BYOM no code	Supported	Supported
ModelOps Agent		
ModelOps Agent concurrency	≈2	≈5
Additional Software		
	Docker CE 20.10.9 or newer	Docker CE 20.10.9 or newer
	Docker Compose 2.5.0 or newer	Docker Compose 2.5.0 or newer

TechBytes - ClearScape Analytics ModelOps: https://www.youtube.com/watch?v=ZRqREsOMnXI

ClearScape Analytics ModelOps User Guide:
https://docs.teradata.com/r/Enterprise_VMware_IntelliFlex/ClearScape-AnalyticsTM-ModelOps-User-Guide

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