AI Dynamics Platform

ENTERPRISE AI FOR BUSINESS OF ANY SIZE

Overview

AI Dynamics enables enterprises to create, deploy and execute AI models quickly and at scale. Our Platform, NeoPulse, comes with a built in AutoML system that can tackle most real-world problems out of the box and includes a scripting language called NeoPulse Markup Language (NML) that can help new users get started with just a few days of training and as little as 14 lines of code. This powerful framework can produce significant cost and time savings and empower an organization to train and deploy AI models in minutes[1].

AI Dynamics Benefits

Enterprise-ready MLOps suite: Machine Learning Operations (MLOps) is the intersection of DevOps, data engineering and machine learning. AI Dynamics NeoPulse combines all three elements into a single cohesive environment that can streamline the engineering, deployment, and management of AI solutions.

Automated machine learning workflows: train, retrain, a/b test and deploy

Deployments: deploy on premise, in the cloud, on edge devices, or in hybrid environments

AutoML: no-code/low code machine learning architecture design for many types of ML problems
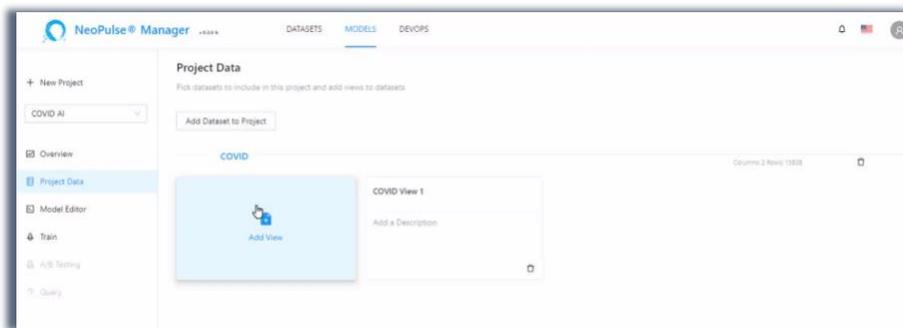
Scalability: scale out to hundreds of containerized deployments

NeoPulse Automates AI Generation for Most Data Types: perform many tasks on a single platform – data analytics, image segmentation, image classification, video classification, text analysis, audio analysis, and many more

Governance and Auditability: companies are expected to have numerous models in production at any time in every facility, across multiple organizational departments and geographies. The need to govern how ML models are developed, validated, deployed to or removed from production, and how datasets and associated labels evolve is crucial to maintain long term integrity and traceability of the entire system. NeoPulse's governance features enable this functionality automatically and, in the background, giving stakeholders the freedom to innovate with agility and at scale.

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[1] Training time is dependent on hardware speed and model complexity and can vary from minutes to hours

> "We were able to successfully train an AI model to recognize complex industrial parts using NeoPulse 3.0 on AWS. The AI solution was built very quickly and was able to recognize objects in unpredictable, real-world environments with high accuracy."
>
> -Seoug-Jin Kim, CDO
> **Hyundai Elevator**

A Powerful MLOps Suite for the Enterprise

The NeoPulse Framework enables organizations to manage their entire AI workflow and infrastructure from one place. This means that DevOps, data engineers and ML engineers all work from one interface instead of using separate applications. Using NeoPulse, a data engineer can assemble training data sets, the machine learning engineer can create AI models and the DevOps engineer can deploy and manage the solution without ever leaving the NeoPulse environment.

NeoPulse Studio creates or imports AI models. Users can either use the on-board autoML capability to create models automatically, or hand-code the AI models using the NeoPulse Modeling Language (NML), which enables powerful model creation in as little as 15-20 lines of code. Users can also import models they have previously created using Tensorflow, PyTorch and other frameworks, and retrain them in NeoPulse[2].

NeoPulse Manager manages the flow of data, AI models, code and artifacts required to train, verify, and deploy models. It can be used to perform A/B testing, maintains a repository of models and tracks the provenance of AI models and datasets automatically.

NeoPulse Runtime stages the AI model for either batch or real-time inference while abstracting away underlying hardware in the cloud, on-premises or at the edge on ARM systems.

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[2] Depending on model and layer complexity, some support may be required during import

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Some of the businesses we helped to stay ahead of the curve:

Stanford MEDICINE

HYUNDAI ELEVATOR CO., LTD.

Nitto
Innovation for Customers

SUMITOMO ELECTRIC
Connect with Innovation

Universitätsklinikum Essen

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