

# Drive the Next Generation of AI with Powerful Model Serving and Orchestration

Easily manage, run, and scale your AI & ML WorkFlows with UbiOps and WEKA® Data Platform

## Summary

- Leverage on-demand access to CPUs and GPUs in the cloud.
- Turn AI models and workflows into scalable microservices
- Drive faster time to production and even more immediate outcomes.

## Use Cases

- Machine Learning & Deep Learning
- Computer vision
- Manufacturing
- High Performance Computing

Tackling AI & ML workloads requires organizations to pay attention to both their data and code. Challenges ranging from long time to train and deploy new models to scaling issues to cost overruns to dealing with increasingly complex pipelines can drain even the most effective organizations.

This is why UbiOps and WEKA are making it our joint mission to help AI teams with our joint solution for production grade deployments, training and management of AI and ML workflows.

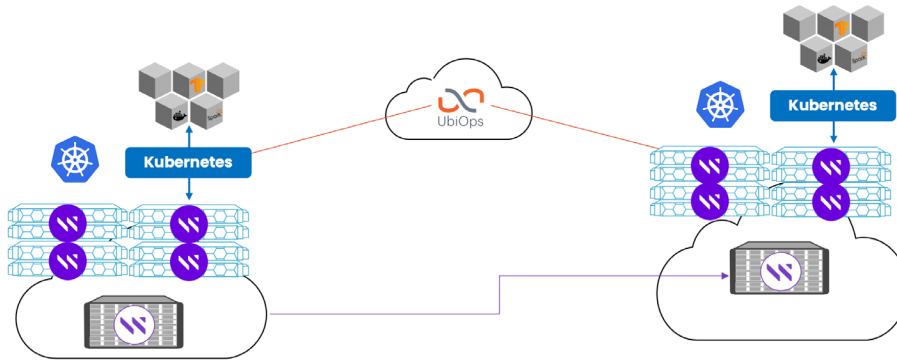
- Create and orchestrate workflows—reuse and sharing pipeline steps and data. Grow with ease including enabling autoscaling of resources.
- Deploy your data science and machine learning models and run GPU accelerated deep learning.
- Train ML models using PBs of data on the cloud.
- Tackle real-time applications such as computer vision where applications need to deal with large amounts of data.

Here are the challenges UbiOps and WEKA are teaming up to solve:

- **Complexity:** Machine learning models can be complex, and scaling them to handle large amounts of data and perform well in production environments can be difficult.
- **Data Quality:** Maintaining the quality of data used to train and test models is critical for AI & ML applications; it can be challenging to ensure that data is consistent, accurate, and up-to-date at scale.
- **Model Versioning:** Keeping track of different models and their respective performances can be difficult, especially as the number of models deployed increases.

## A Solution for the Next Generation AI and ML Applications

WEKA has partnered with UbiOps to help your data scientists and organization overall address these challenges, increasing the success of your machine learning, deep learning and analytics efforts. Teams can drive on-demand access to resources for an entire workflow, from building the model to training to inference to maintenance.



### UbiOps Advantages

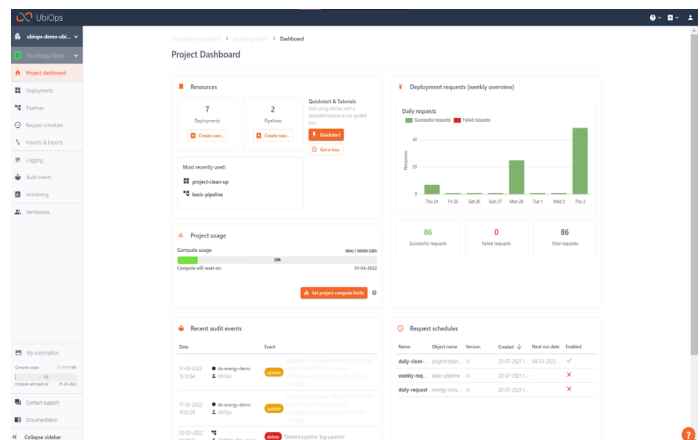
UbiOps is a comprehensive platform for deploying and managing machine learning models and data science workflows, with a focus on scalability, reliability, and security. It allows organizations to manage, train and run their AI/ML jobs all from one location and scale out automatically across cloud and on-premise environments. Without having to worry about cloud engineering, DevOps, security, and other technical challenges.

UbiOps lets data scientists easily share and collaborate on code, data, and models with built in version control, simple rollback, monitoring, and logging for deployed models. Ubiops as an MLOps tool reduces development costs significantly, increases productivity of your data science team and decreases your time to market. Moreover, UbiOps is cloud and industry agnostic.

UbiOps’ offering can be used as SaaS or be installed in your own cloud environment. So you can run your setup in the same environment or region of your choice where your WEKA installation is, optimizing for cost and compliance.

#### Benefits include:

- Accelerated go-to-market with ML/AI solutions:** UbiOps delivers one of the fastest routes to production grade ML/AL workloads. Manage and govern everything in one place. You can use the extensive platform API to automate your workflow and integrate with other tools.
- Lower engineering costs:** UbiOps simplifies the deployment and management of machine learning models and data science workflows, allowing teams to focus on their core competencies instead of managing infrastructure and deployment pipelines.



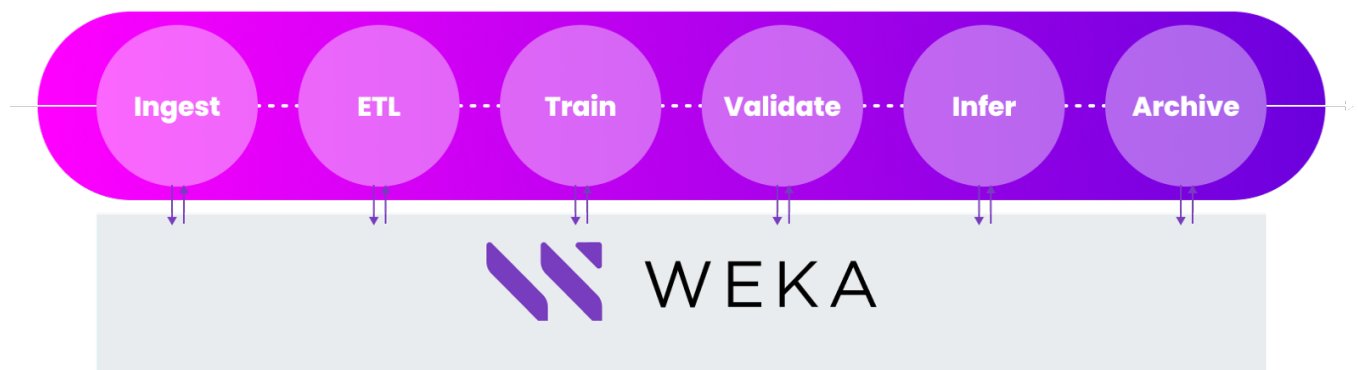
- **Scalability and GPU access:** UbiOps provides an elastic, cloud-based, infrastructure, ensuring that deployed models and workflows can handle large varying volumes of data or users. UbiOps also ensures access and availability to the right hardware, like GPUs, you can run dynamically across clouds, regions, or your own compute infrastructure.
- **Enhanced Security and Reliability:** UbiOps has robust security features such as end-to-end encryption, secure data storage, and access controls, which can help businesses comply with data privacy regulations such as GDPR.
- **AI workflows and model reusability:** Create production workflows with the unique pipeline service. Add operators for ultra-fast parallel processing, conditional logic, data transformations and alerts.

## WEKA Advantages

WEKA has built a software-defined Data platform that leverages cutting-edge cloud, compute, storage, and fast networking technologies to unleash the value of your data.

WEKA Data Platform delivers consistent lightning-fast access to data at terabytes to exabytes scale when needed across the AI workflow. Our patented architecture starts small and scales to extremely large deployments without compromising performance. The WEKA Data Platform eliminates the need for multiple storage options and data copies across MLOps workflows, reducing operational complexity, enhancing pipeline efficiency, and increasing GPU utilization.

With WEKA, a single data platform supports all popular data access methods, including the POSIX-compliant file system, NFS, SMB, S3, CSI for Kubernetes, and GPU Direct Storage (for direct data movement between GPUs and storage). In addition, because the platform is software-defined, it enables both on-prem, private clouds and cloud deployment across popular clouds. WEKA also makes moving data across different clouds a breeze allowing organizations to take advantage of multiple or hybrid clouds like UbiOps.



**Additional benefits include:**

- **Move and back up data easily.** Advanced data management capabilities enable data movement quickly and efficiently between different clouds and simplify backups to local or remote cloud regions.
- **Tier automatically.** WEKA can automatically tier cold data to low-cost object storage, on-prem, or cloud for better economics. All data remains in the namespace, and metadata stays on the flash tier for fast access.
- **Ensure security.** The WEKA data platform was architected to ensure the security of your data with advanced authentication, in-flight and at-rest encryption, and flexible key management.

Read more in the WEKA Data Platform [architecture white paper](#).

## UbiOps and WEKA Solution for Your Organization

Together we provide a complete solution for AI/ML and data science teams to manage and collaborate on their next generation of models and pipelines. Together, UbiOps and WEKA can make hybrid clouds for AI/ML a reality no matter where data lives. IT can consolidate siloed stacks onto a single governed data science platform running on-prem or in the cloud. With our joint solution, you capture and track all project artifacts, including code, package versions, and parameters, to establish full visibility, repeatability, and reproducibility at any time for both model training as well as production grade inference for AI models and pipelines.

## Get Started Today

If you are an organization investing in artificial intelligence, machine learning, and deep learning initiatives,

UbiOps and WEKA can help simplify your journey with excellent ROI, better model quality, and an excellent time to production. We are excited to offer a complimentary technical consultation looking at your current and future needs, including a proposal for a proof of content. Email us at [alliances@weka.io](mailto:alliances@weka.io) or contact your authorized UbiOps and WEKA representatives to learn more about this offer and more information.

[weka.io](http://weka.io)

844.392.0665

