Dataloop covers the entire AI lifecycle, from development to production. Get ready – we're bringing AI technology to the masses.
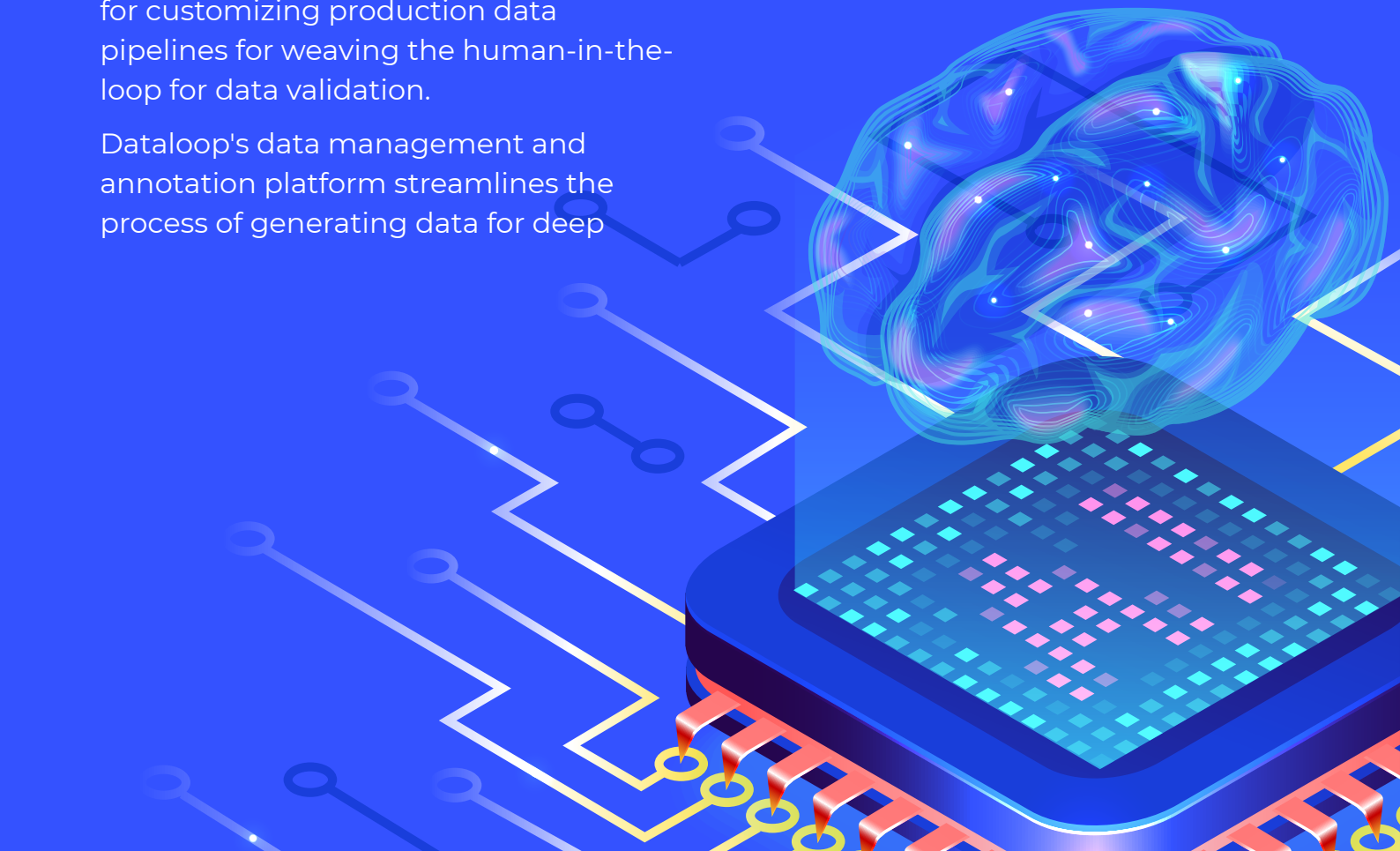
Here's How Dataloop Powers the AI Lifecycle

Dataloop is an enterprise grade end-to-end data platform for building and deploying powerful AI systems. It includes AI-assisted data labelling and automatic annotation for hyperspeed dataset creation, robust data management for visualising and searching through troves of unstructured data, quality control toolchains and an AI cloud environment for customizing production data pipelines for weaving the human-in-the-loop for data validation.

Dataloop's data management and annotation platform streamlines the process of generating data for deep learning while reducing costs and saving extensive engineering efforts of complex tools and speeding the time to market.

With a single, affordable and scalable SaaS platform for machine learning, enterprises can focus their resources where they are needed most, on driving their core business value.

Dataloop

How intelligent is your machine learning?

We say, as intelligent as the humans behind the machine.

Humans are crucial to any AI-based system. They are the ones training the data models, the ones completing the annotation process, and the ones feeding the algorithms that keep the AI cogs turning.

Unfortunately, preparing high-quality data for computer vision use cases is lengthy, complex, and expensive, creating a barrier to entry that many enterprises struggle to overcome.

Until now.

Dataloop accelerates machine learning projects, by adding human validation in a continuous loop, improving the likelihood of success when shifting the model out of the lab and seamlessly transferring it to the real world.

The results? The highest-quality data, fed and improved in real-time by a continuous feedback loop of authentic and validated information, directly from your production environment.

Our specialty is computer vision technology, and our end to end data engine supports you at every stage of the data preparation cycle, increasing productivity, revenue, and growth via efficiency, intelligence, and automation.

Addressing the Precision Agriculture Industry Challenges with Dataloop

Powering computer vision in precision agriculture

When it comes to the industry of precision agriculture, computer vision models can improve a wide range of farming applications – from monitoring crops and produce to livestock and aquaculture.

Developing such applications, however, means working with unstructured, unpredictable, and highly dynamic environments, in which terrain and targeted objects vary and change constantly. Preparing agricultural data also requires expertise, both during analysis and implementation.

This is where Dataloop's platform is able to integrate automatic active learning and data processing functions, combined with an expert human-in-the-loop workforce for data validation. This means you can use your models to pre-annotate and pre-process data that comes directly from your production environment, then have expert annotators audit and fix only edge cases – resulting in continuously improved model accuracy and significant saving of resources and time, even in highly dynamic and diverse agricultural settings.

Dataloop's enriched AI capabilities specific to the precision agriculture Industry:

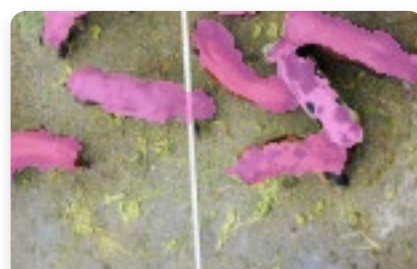Growth monitoring

Crop monitoring

Pest & disease diagnosis

Crop harvesting

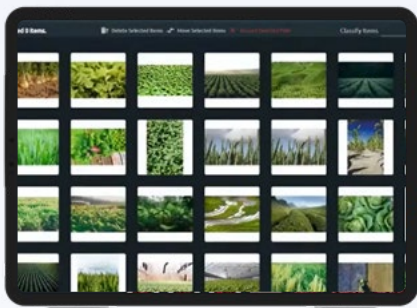Weed control

Livestock monitoring

Trusted by top precision agriculture companies:
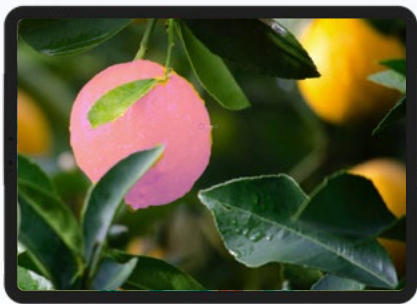

SeeTree

RAVEN

Dataloop: A Single Technology Stack for the Whole Data Preparation Process

At Dataloop, being industry or use case agnostic, we provide the technology stack from annotation and training, through to validation and production. As a full cloud based solution, Dataloop scales to manage petabytes of data, processing millions of images in a best-of-breed data management system that was built for purpose.
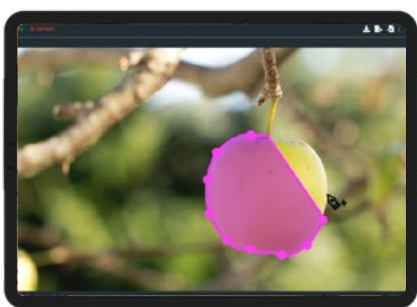
The Three Key Products of the Dataloop Platform

Data Management for AI: A single, secure data management system designed for visualizing all of your unstructured data and seamlessly integrating with your existing cloud storage. The entire data organization including your data scientists, data engineers and data operators can search, filter, sort, clone, merge and query the datasets at ease and at speed. We offer robust and resilient tools that streamline the entire data preparation flow from end to end.
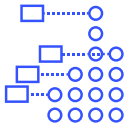

AI-Assisted Annotation Platform: A robust data annotation platform supporting a long list of data types and tools such as images, video and audio. AI-assisted tooling for accelerating the production of datasets andan advanced data ontology builder for complex labeling tasks. Hyper flexible and extendable capabilities for integrating smart automation models to reduce the time it takes to label unstructured data. Fully integrated QA and feedback tools weaved in to allow real time collaboration between all parties.

Automation & Production Pipelines: A developer platform to give data teams the tools and technology to create custom serverless functions and pipelines using our Python SDK and our robust Rest API. Our interactive and friendly interface makes it simple, fast and intuitive to create event-driven automation pipelines, models and logic to generate functions to process your data, weave human validation to add unparalleled accuracy and control.
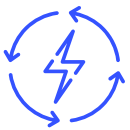
Dataloop's Competitive Advantage in the Industry

Highest-Quality Data: Automatically run quality assurance machine validation and model comparison before handing any outliers over to human annotators. Real time data debugging and collaboration tools.

Cost-effectiveness: Augment human intelligence with AI-assisted automation, one-click pre-trained classes and built in algorithmic trackers that reduce your time spent and data cost significantly.

Efficiency: No need to sync multiple vendor solutions, Dataloop does it all, so you can create, manage and collaborate across the data lifecycle, from a single point of access.

Time to Market: We accelerate the speed of annotation by up to 90%, helping enterprises reach the quickest possible time to market for their AI projects.

Deploy Anywhere: On virtual private cloud (AWS, Google or Azure) or on premises deployments are offered via a Kubernetes Docker cluster. No need to move over your data.

Data Security & Privacy: Enterprise ready with advanced authentication enforcement, identity management, storage integration, GDPR compliance, encrypted data communication as key measures to ensure data is kept private and protected.

Advanced Automation: Add cutting edge patented technology applied with dozens of algorithms to accelerate and automate annotation giving super powers to your manual labelers.

Human Workforce Management: Grade, score, track and manage your workforce through intelligent analytics and reporting, in real-time.