Service ID S00297

Location Remote

Labelling and Data Augmentation Framework Support

Provider service

Instituut voor Landbouw-, Visserij- en Voedingsonderzoek (ILVO)

Link to content

https://agrifoodtef.eu/catalogue-of-services/labelling-and-data-augmentation-framework-support

Type of Sector

Arable farming, Food processing, Greenhouse, Horticulture, Livestock farming, Tree Crops, Viticulture

Accepted type of products

Data, Software or AI model

Type of service

Data augmentation, Desk assessment, People training, Test setup

Description

This service provides essential support for creating a robust framework to label, store, and manage data effectively for AI training purposes. Proper labelling is crucial, as deep learning models rely on consistent, high-quality data to detect complex patterns. Within this service, we do not label data ourselves but rather offer training guidelines to ensure that data is labelled accurately and consistently across large datasets. Please refer to other services if you wish for your data to be labelled by us. In addition, we help set up the necessary digital infrastructure for storing and maintaining this data. Our support streamlines the labelling and data augmentation process, laying the foundation for successful AI development in applications such as crop monitoring, pest detection, and yield prediction in the agri-food sector.

How can the service help you

> Support with training guidelines

> Add version control and traceability throughout labeling

> Possibility for long term storage and easy retrieval of datasets for specific AI-models

How the service will be delivered

The process is adapted to your required annotation tool. The organisation in ClearML is a flexible system allowing full version control and traceability for every unique combination of datasets and trained models.

Service customisation

Images will be uploaded to our ClearML server, ensuring robust version control and full traceability throughout the labelling and data augmentation process. We conduct thorough quality checks on all annotations to maintain high accuracy and consistency. Additionally, we provide support for various annotation tools such as Labelbox, CVAT, and others, ensuring a seamless integration with your workflow and AI model requirements.