

Service ID S00218



Location Poland, Remote

Evaluation of AI solutions for crops, livestock, and food products analysis

Provider service

Łukasiewicz - Poznański Instytut Technologiczny

Link to content

<https://agrifoodtef.eu/services/evaluation-ai-solutions-crops-livestock-and-food-products-analysis>

Type of Sector

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

Accepted type of products

Data, Design / Documentation, Software or AI model

Type of service

AI model training, Data analysis, Performance evaluation, Test design, Test execution, Test setup

Description

The service provides the testing, validation, and training of machine learning algorithms specialised in the detection of weeds, crops, livestock, and food products. The model data for the training implementation can come from different sources. They will come from services run by the Agrifood TEF service network. They may come from the service provider's implementation of other similar services, or they may be provided by the client of the service as collections resulting from their research. In this case, the datasets provided will be validated to assess their quality and suitability for machine training of artificial intelligence algorithms. The envisaged scope of the service, the algorithm training, relates to a wide range of fields and includes farming and plant breeding, animal husbandry, and food processing.

How can the service help you

As part of the service, we conduct an integrated evaluation process of the potential training data provided by the client of the service, including its validation towards an assessment of its quality and suitability for training of artificial intelligence algorithms, as well as an assessment of a given AI solution using the data.

Other sources of learning data will be other services in this area carried out as part of the AgrifoodTEF project, and we do not

How the service will be delivered

Our service of performing the processes of comprehensive evaluation of the artificial intelligence algorithms, including a validation of the data towards the assessment of its quality and suitability for training of the artificial intelligence algorithms, is based on a structured workflow. The scope of the proposed training will also include the training of models based on customer-supplied data or the service provider's own data. The scope and capabilities of the solutions might include weed detection, soil and plant breeding, livestock breeding and welfare, and food preparation and processing, among others.

Service customisation

Our service offers the analyses allowing for a comprehensive validation and evaluation of artificial intelligence algorithms provided by the client of the service, including validation of the datasets towards the assessment of their quality and suitability for training of the algorithms. As part of the service, we also envisage the possibility of using data obtained from services carried out as part of the AgrifoodTEF project; we do not exclude the use for this purpose of data held by the service provider that it has obtained from other related studies and tests not substantively related to the project. In order for the service to be properly conducted, the client must grant access to the relevant data and documentation.