Applications of artificial intelligence and visual recognition for assessing

Provider service

Università degli Studi di Napoli Federico II

Link to content

https://www.agrifoodtef.eu/services/applications-artificial-intelligence-and-visual-recognition-assessing-quality-agri-food

Type of Sector

Arable farming, Food processing, Greenhouse, Horticulture, Livestock farming

Accepted type of products

Data, Design / Documentation, Software or AI model

Type of service

AI model training, Certification, Collection of test data, Conformity assessment, Data analysis, Data augmentation, Performan

Description

The service focuses on utilising artificial intelligence (AI) and visual recognition technology to enhance quality assurance, consistency, and efficiency in the agri-food industry. Its AI-driven quality assessment solutions ensure that products meet industry standards, regulatory requirements, and consumer expectations. By identifying deviations from quality standards, the service enables proactive quality control, reducing the risk of product recalls or rejections.

How can the service help you

The service can help you by providing AI-based quality assessment solutions that ensure your agri-food products meet industry standards, regulatory requirements, and consumer expectations. By using visual recognition technology, it identifies any deviations from quality standards, allowing you to implement proactive quality control measures. This helps reduce the risk of product recalls or rejections and enhances the overall consistency and efficiency of your production processes.

How the service will be delivered

Tailored Quality Standards: The service can be customised to align with your specific quality standards, regulatory requirements, and consumer expectations, ensuring the AI system is trained to identify the exact parameters that matter most to your products.

Flexible Detection Capabilities: The service can be adjusted to detect a wide range of quality deviations—whether related to size, shape, colour, or packaging—based on the unique characteristics of your products.

Scalable Solutions: Whether you're a small-scale producer or a large agri-food enterprise, the service can be customised to fit the scale of your operation, offering scalable AI solutions that grow with your business.Real-Time Reporting and Alerts: Custom reporting features can be designed to meet your specific needs, ensuring you receive real-time insights and alerts for quality deviations, allowing for immediate corrective actions.Ongoing Adaptability: The service can be continuously adapted based on feedback and performance data, allowing it to evolve as your quality assurance requirements change or as new standards emerge in the industry.

Service customisation

The service will be delivered through the implementation of AI-based quality assessment solutions that integrate visual recognition technology into your production processes. These systems will be set up to continuously monitor and analyse your agri-food products in real-time, ensuring they meet the required quality standards. The service will include the setup, customisation, and ongoing support to ensure seamless integration and effective identification of quality deviations, enabling proactive quality control and minimising the risk of product issues.