Service ID **S00219**

Location   Remote, Sweden

Assessment and evaluation of applied natural language processing

Provider service

RISE - Research Institutes of Sweden

Link to content

https://agrifoodtef.eu/catalogue-of-services/assessment-and-evaluation-applied-natural-language-processing

Type of Sector

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

Accepted type of products

Design / Documentation, Software or AI model

Type of service

AI model training, Performance evaluation

Description

This service explores the potential of implementing applied Natural Language Processing (NLP) systems, rigorously evaluating them to ensure high quality and performance while identifying and addressing any limitations. It includes developing improvements to resolve issues uncovered during evaluation and ensures the NLP systems remain up-to-date.By integrating NLP technology, businesses can enhance customer interactions through automated yet personalized responses. NLP also enables the analysis of large volumes of text data to uncover trends, identify opportunities, and provide valuable insights.In the context of agricultural AI and robotics, NLP can significantly improve decision-making, operational efficiency, and communication.

How can the service help you

Applied Natural Language Processing (NLP) services can significantly enhance AI and robotics solutions in agriculture by improving decision-making, efficiency, and communication. With NLP, agricultural data can be analysed to generate actionable insights, automate tasks such as crop monitoring and inventory management, and facilitate clear interactions between farmers and their systems. This is particularly valuable for innovators who face challenges with data overload and communication barriers. By integrating NLP, products can more effectively process data, streamline routine tasks, and ensure accurate communication.

Farmers benefit from detailed reports, the ability to interact with systems using natural language commands, and improved productivity overall.

Before & After the Service:

- Before: The farmer has an AI or robotic solution that generates large volumes of data but struggles to process it efficiently. Communication between the farmer and the system is also limited.

How the service will be delivered

The service is fully customisable to meet each customer's specific needs. The assessment journey begins with a collaborative meeting, where the customer engages with the agrifoodTEF technical team, alongside specialised experts from RISE or AstaZero. During this session, both teams work together to explore options and tailor the service to the customer's unique requirements, with a dedicated customer support team guiding them through every step of the process.

Service customisation

The agrifoodTEF project provides a comprehensive service to enhance the use of Natural Language Processing (NLP) technologies. This service begins with an initial consultation to introduce the tool and task, followed by a mid-term review for gathering additional insights and resources. The core of the service involves assessing NLP quality and delivering targeted recommendations for improvement, along with guidance on maintaining continuous quality measurement.

- Logistics:

Delivery Period: The service is available year-round, with no restrictions due to vegetation cycles.

Duration: The execution timeline typically spans several weeks, depending on task complexity.

Location: The service is conducted remotely, allowing flexibility with no geographic constraints for the customer.

Customer Requirements:

- Input: The customer is expected to provide access to their platform and any relevant data or resources necessary for the assessment.