Service ID S00171

Location Remote

Data analysis to optimise AI model training

Provider service

Josephinum Research (JR)

Link to content

https://agrifoodtef.eu/catalogue-of-services/data-analysis-optimise-ai-model-training

Type of Sector

Arable farming, Horticulture, Livestock farming, Tree Crops, Viticulture

Accepted type of products

Data

Type of service

Data analysis

Description

Our service enhances your dataset's quality using descriptive statistics to gain insights and ensure robustness. We use measures like mean, median, standard deviation, etc., to identify central tendencies and variability. We perform plausibility filtering to check for logical consistency and outlier filtering to remove data points that could skew predictions. This careful data preparation refines your dataset, boosting the accuracy and reliability of your model training. Tailored to your needs, these methods optimise your dataset for better model performance.

How can the service help you

This service helps by refining and enhancing customer datasets through advanced data analysis techniques. Before the service, customers may have datasets with inconsistencies, outliers, or limited insights into variability and trends. After the service, the datasets are cleansed, consistent, and enriched with descriptive statistics such as central tendencies and variability measures. These improvements make the datasets more robust and reliable, ensuring better model training and analytics outcomes.

How the service will be delivered

Customisation options include focusing on specific statistical measures, applying advanced outlier detection techniques, or tailoring the analysis to unique dataset characteristics as well as specific training approaches. The service can also adapt to specific industry or project needs, such as incorporating domain-specific validation rules. Limitations depend on the quality and structure of the provided datasets. Customers should communicate any specific requirements or constraints during the initial planning phase.

Service customisation

The service is delivered remotely and includes several stages of data analysis, such as descriptive statistics computation, plausibility checks, and outlier filtering. Depending on the dataset size and complexity, the service execution takes a few days to weeks. Customers receive a detailed report that includes an analysis summary, identified data patterns, and recommendations for improving model performance. Customers must provide their datasets and specify their analysis objectives to ensure tailored results.