Technical Features of the AutoML Platform and Solutions

Modulos AutoML supports the implementation of a wide range of use cases. It guides you at every step, making it easy for non-experts to generate state-of-the art AI solutions fast.

1

IDEATE: Define your AI Use Case with ease.

Translate your AI use case to one of these supported machine learning tasks:

- **Regression:** *Tabular & image regression*
- **Classification:** *Tabular & image classification*
- **Time Series Forecasting:** *Tabular time series data*
- **Soon: Probabilistic Classification:** *Tabular & image classification*

Translate your performance requirements using:

- **Selection of 11 most commonly used objectives:** *e.g. Accuracy, F1 Score, MAPE*

2

SELECT DATA: Simple upload process.

Easily upload a range of different data types and combinations of data:

- **Tabular data:** *csv*
- **Imaging data:** *jpg, npy, tif, png*
- **Any combination of tabular and imaging data**

If the platform has been installed on-premises, your data never leaves your environment.

3

CREATE ML MODEL: Automated selection and training of ML models.

Modulos AutoML automatically searches for the best ML solutions:

- **11 feature engineering modules: e.g. incl. autoencoders, principle component analysis, t-tests**
- **10 state-of-the-art ML models: e.g. incl. tree-based models, neural networks, neural architecture search**
- **Configurable, systematic, and unbiased solutions search**
- **Automated selection and training of ML solutions**
- **Configurable resource optimizations settings: Optimize resources spent finding the best solutions**

4

VALIDATE MODEL: Select, download, and understand your ML solution.

AI solutions built to be easy to understand and transparent:

- **Solutions fully belonging to you**
- **Fully transparent scripts:** *Modify and tune solutions further (if needed)*
- **Complimentary insights plots and interpretability analysis:** *Understand how your solution works and performs*

5

DEPLOY TO PRODUCTION: Deploy your solution anywhere you want.

Solutions built to be integrated into your services, anywhere they are:

- **Solutions independent of the platform, execute them free of charge**
- **Different solution clients:** *python scripts (soon: easy to deploy Docker containers)*
- **Modular solutions with an identical API:** *Easily replace solutions with better, future solutions*
- **Simple to integrate into any service:** *python scripts (soon: callable from any language with a REST API)*
- **Deploy the solution anywhere:** *On-premises, in a private cloud, in the public cloud*