

Simplify your AI Journey

AutoML Platform v0.4.3
Technical Summary



modulos

AI Models

- Convolutional Neural Network (Keras)
- Convolutional Neural Network (pytorch)
- Convolutional Neural Network incl. Metadata
- LightGBM
- Neural Architecture Search (Network Morphism) - *experimental*
- Neural Network
- Random Forest
- Ridge Regression
- XGBoost

Feature Engineering

- Autoencoder
- Cropping
- Identity
- Image Identity and Integer encoding
- Principal Component Analysis
- Random Feature Selection
- Random Pixel Selection
- T-test Feature Selection
- Table Preparation with One Hot Encoding
- Table Preparation with Integer Encoding
- Table Preparation with Standard Scaling

Optimizer Strategies

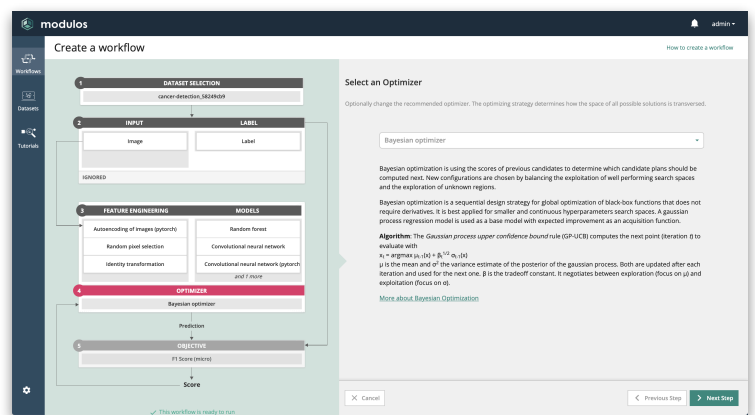
- Random search
- Bayesian optimizer

Score Types

- F1 Score (macro)
- F1 Score (binary)
- Accuracy
- RMS Error
- Recall Score (macro)
- Precision Score (macro)
- Median Absolute Deviation
- Mean Absolute Error
- Mean Absolute Percentage Error
- R2 Score

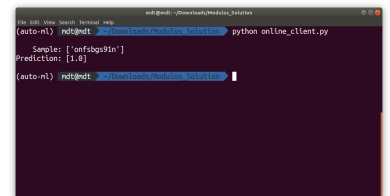
Data Types

- CSV tables
- images (jpg, npy, tif, png)
- text (txt) documents
- import via upload to platform
- Support for datetime



Deployable Solution

- entire trained model downloadable
- run using python scripts
- online and batch client
- full transparency and no restrictions
- Jupyter Notebook



Infrastructure Requirements

- Linux (Ubuntu 18.4 recommended)
- Minimum 4 CPU cores (at least i5 or equivalent)
- Minimum 16 GB RAM
- Minimum 500 GB hard drive (SSD recommended)
- Docker Community Edition v19.03 (API v1.40) or v20.10 (API v1.41)
- [GPU only] NVIDIA GPUs with a driver compatible with CUDA 10.1 (nvidia-driver-435 recommended)
- Python 3.6 or 3.7
- Internet connection

for optimal performance, more hardware resources are needed

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