

Profile of divis intelligent solutions GmbH

BeyondAnalytics

Total solutions for
real-world requirements:
Machine learning,
predictive analytics
and optimization for
the industry

What we do

Our mission is to make the methods of artificial intelligence applicable in all areas of industry and to generate significant value for our customers.

divis intelligent solutions GmbH is a leading provider of consulting services, custom software development, and proprietary software products in artificial intelligence, with topics such as predictive analytics, automated machine learning, generative AI, and optimization. As a subsidiary of Terra Quantum AG, we are already preparing the groundwork to make these algorithms "Quantum-Ready" for our customers in the future.

The application possibilities and our experience cover many areas, including predictive quality, predictive maintenance, anomaly detection, optimization of processes and product development, and simulation-based optimization coupled with machine learning.

Application areas

Application topics are extensive and can only be mentioned here as examples:

Automotive industry

- Development processes, e.g. coupling AI and simulation.
- Forming technology.
- Joining technology, e.g. welding, clinching, bonding, bolting.
- Corrosion protection and painting.
- Product development, e.g. structural mechanics, vehicle dynamics, aerodynamics.

Consumer goods

- Product development in the laboratory, using predictive models for product properties.
- Production processes, e.g. optimization for robustness, product quality, etc.

Chemical industry

- Product development in the laboratory.
- Production processes, e.g. optimization for robustness, product quality, emission reduction.

Process industry

- Predictive Maintenance.
- Predictive Quality: Optimization of process parameters.
- Optimization for process robustness.
- Energy saving and emission reduction.

EXTRACT FROM OUR LIST OF REFERENCE

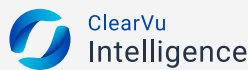
- Honda Research Institute Europe GmbH
- BMW Group
- Beiersdorf AG
- Chemetall GmbH
- DLR – Deutsches Zentrum für Luft- und Raumfahrt
- Daimler AG
- Hyundai Motor Company
- ThyssenKrupp Industrial Solutions AG
- 3M Deutschland GmbH
- Johnson & Johnson Deutschland
- IOI Oleo GmbH
- Dr. Ing. h.c. F. Porsche AG
- Metzeler Schaum GmbH
- Schüco Polymer Technologies KG
- Covestro AG
- Evonik Technology & Infrastructure GmbH
- S. C. Johnson & Son, Inc.
- Mercedes-Benz AG
- Norce Norwegian Research Centre AS
- ADLER Werke

Total solutions for real requirements

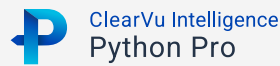
Depending on your needs, our experts create a solution through a consulting project, a custom software development that optimally meets your requirements, or through our powerful software modules: ClearVu Analytics (also available as Python Package) or ClearVu Solution Spaces.

Our team consists of experts in artificial intelligence, statistics, optimization and software development. We have many years of experience in the practical implementation of these methods as well as in understanding your problem exactly and developing a solution that fits optimally into your software environment.

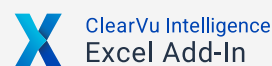
Software



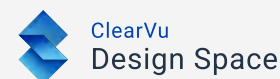
ClearVu Analytics is a state-of-the-art tool for Automated Machine Learning and Optimization, directly on your data. It makes the creation of powerful predictive models and their use for product or process optimization usable in a convenient way.



The ClearVu Python Package provides the functionality of ClearVu Analytics in Python. This makes Automated Machine Learning usable in Python without any further training - fast, automatic, and powerful.



The Excel Add-In provides Automated Machine Learning directly in Excel with just a few clicks to generate predictive models for your data sets. The resulting forecast model can be used as a cell function directly in Excel for forecasting and the model itself can be analyzed and visualized.



ClearVu Solution Spaces is a special procedure for defining design boundaries for product development. With its help you find the maximum parameter ranges for usable product designs. This makes it possible to find and make optimal use of commonalities between different products - e.g. vehicle series.

EXTRACT FROM OUR LIST OF TESTIMONIALS

»ClearVu Analytics offers us a real advantage with the calculation of a theoretical optimum [...]. In simple terms, the algorithm provides us with several solution scenarios that best match the previously defined goal.«

3M Deutschland GmbH, Senior Specialist Quality & Development, Neuss, Dipl.-Phys. Reiner Hackler & Dr.-Ing. Mario Horvat

»As the leading expert in the application of evolutionary strategies and meta-models to hard industrial optimization problems, Prof. Bäck has always delivered highest quality results for BMW. We truly appreciate our collaboration and warmly recommend a collaboration with Prof. Bäck to any industrial partner who is in the need of solving tough optimization, modeling, and prediction problems.«

BMW Group, Design and Innovation, Munich, Germany, Markus Ganser, Manager Standardization

»[...] with divis' ClearVu Analytics engine, we satisfied all the technical requirements faster than with traditional processes, and now have a new product we will bring to the market.«

Beiersdorf AG, Hamburg, Germany, Dr. Thomas Hillemann, Head of Study Coordination

»Next to the professional competence of Thomas Bäck's team, we are also impressed by their ability to focus on our technical requirements and to employ AI-methods specifically, just as required by the task.«

IOI Oleo GmbH, Process optimization, Witten, Germany, Thomas Kummer, COO

BeyondAnalytics

We are part of a company that makes research results directly usable for our customers. Through our managing director, Prof. Dr. Thomas Bäck, this is ensured for the methods from AI and optimization. Numerous cooperations, such as with Prof. Dr.-Ing. Gerson Meschut from the University of Paderborn, enable us to cover other fields such as joining technology with proven expertise. As you can see: We are ready for your challenges!

Quality management certification according to ISO 9001

Our quality management has been audited and certified by TÜV according to DIN EN ISO 9001:2015. This certification of our customer orientation, process orientation, and continuous measures for their improvement and risk management confirms our quality and solution-oriented approach in all projects.



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