

Success story

Clever automation of test systems

Transfer of Machine Learning Models into software solutions with Python

With the new development of the automation software for test systems, ZF Friedrichshafen AG is building on many years of success with its previous software solutions and is consistently laying the foundation for the future. cluetec supported the ZF team in the conception and development of a central software module for data management and

consistent data exchange between different components of the ZF test system. A challenge were the high demands on performance and stability with large amounts of data, as well as the transfer of existing machine learning models into performant modules. As a result, a software that meets all requirements was released on time and within budget.

Software development based on Python

Service-based application architecture

Asynchronous frameworks in Python

IPython and numPy for numerical tasks

Plugin-enabled core components

Test-driven development

Services



Technical consulting, application architecture, project implementation



Establishment of deployment pipeline and DevSecOps processes



Integration of existing Machine Learning models



Optimization of performance and stability



The extensive know-how and experience of cluetec has significantly contributed to the successful implementation of the project. cluetec is a partner that we have valued for a long time and on who we will continue to rely in the future.

Johannes Weinberger
Project Manager, Product Owner within the project A4.0

More information at:
www.zf.com

