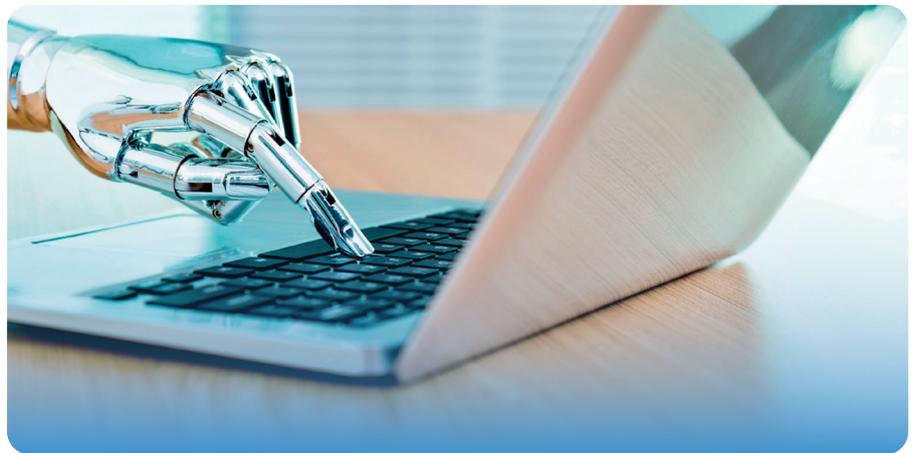


Unlock Benefits of AI

From scratch to practical use cases with ease

Leveraging AI capabilities are nowadays focussed with their "intelligent" abilities to boost product development and validation. Overcoming the limit of the traditional way of working assures a higher capitalization of R&D investments, reduces operational effort and enables a fast availability of innovative products.



Background and today's challenges in AI

The use of AI techniques can be manifold. Artificial Intelligence/Machine Learning/Deep Learning (AI/ML/DL) - These technologies have developed rapidly in recent years in the wake of increasingly powerful GPUs. This trend is set to continue for the foreseeable future.

To leverage the enormous potential organizations are facing different challenges in "AI Awareness" and "AI Readiness":

- Potential use cases are not identified
- Uncertainties about the best-suited approach for the realisation
- Lack of data quality for using AI techniques
- AI not in scope of current operation so far

Reasons to Act

Artificial Intelligence / Deep Learning is a key technology which can help engineers to increase efficiency and uncover new possibilities.

Engineers can achieve:

- Time savings in performance
- Support decision making
- Possibilities to enable more complex tasks
- Reliability by prediction of machinery failure
- Prediction of future market demands

Atos science + computing Solution

Atos science and computing offers a ready to perform Awareness & Ideation Workshop to discover the potential and possibilities of AI for your business. The workshop covers the following aspects:

- Understand what artificial intelligence means
- Discover what is already possible with AI today
- Realize how AI projects are setup and delivered
- Learn which data requirements have to be considered
- Identify new AI use cases for your daily business
- Evaluate the use case ideas

Unlock AI Benefits - From scratch to practical use cases with ease

Why Atos science + computing?

Atos science + computing knows the special requirements that AI/ML and predictive analytics place on R&D IT infrastructures. Over the last decades Atos science + computing worked closely with its automotive customers to improve the daily business of the engineers and developed suitable solution in the R&D landscape within the automotive industry.

In addition, Atos science + computing Software developers and engineering experts can identify the specified challenges and requirements within the R&D business and create tailored AI algorithms and applications that perfectly fit the use cases and questions in your business while ensuring seamless integration into your existing IT landscape

Reference story

During an AI Workshop for an automotive OEM, Atos science + computing discovered different data driven use cases for the business domain. Atos science + computing's combination of AI methods and knowhow within test and simulation practices improved the quality of the workshop output and shortened the time to find suitable use cases. As a part of the following AI/ML project Atos science + computing automated the recognition of wheel hop situations.

Within a short time, a Minimum Viable Product (MVP) was created in four weeks, which makes the engineers more efficient in their work. It generates new insights on data preparation and helps to detect certain "phenomenon" in the sensor data. For example, the use of predictions from neural networks about imminent defects on the test bench hardware based on noise analyses. In addition, the solution enables continuous model improvement by a user-friendly framework for human validation of the model output.

This created direct business value for the customer's engineers and helped to understand the possibilities of AI techniques within several challenges. It also aligns with the AI Journey of the customer to become an AI enabled organization. The customer benefits from the accelerated and enhanced development process through the direct feedback of the AI analysed sensor data.

Next Steps

To create successful and value-generating MVPs, there must firstly be an awareness of what AI can do, and secondly, as many ideas as possible must be generated from the everyday professional environment, where the best ideas are then tested through MVPs. Atos science + computing meets with its multi-step approach the requirements to leverage AI potentials for customer businesses and can support all phases – from ideation to production – within the end-to-end service delivery.

About Atos science + computing

Atos science + computing provides bespoke IT Services & Platforms for product development, simulation and validation. We help our clients utilize advanced CAT / CAE / HPC and AI environments to maximize efficiency of their R&D and engineering.

As a trusted advisor for leading innovation drivers in the automotive and life science industry are the experts in proven advanced computing solutions and services.

For more information: dl-sc-sales@atos.net

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