

Optimize R&D with AI-powered analysis

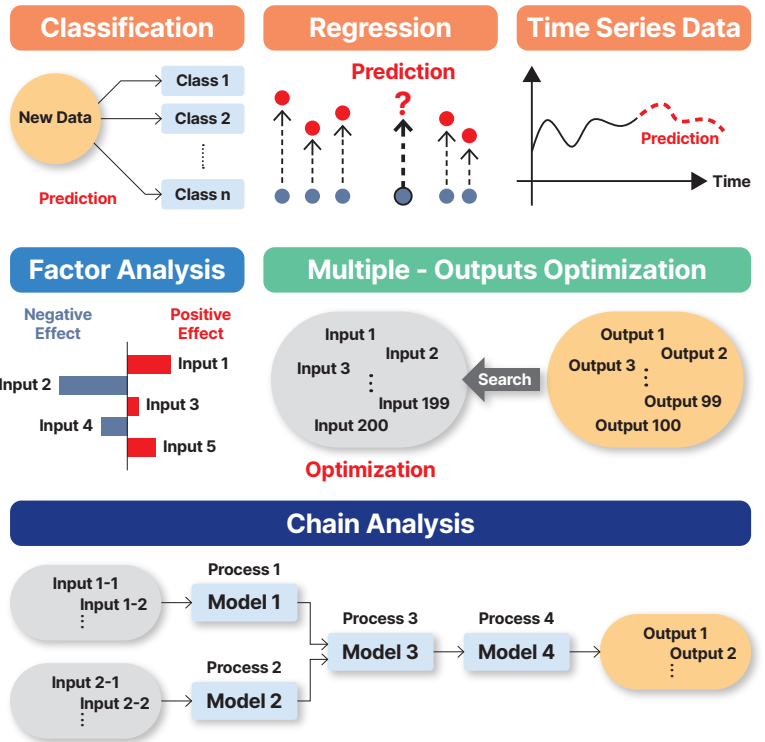
Multi-Sigma® democratizes sophisticated AI analysis techniques while cutting time and costs associated with R&D experimentation

Multi-Sigma®

No-Code and Cloud-Based Explainable AI



- ✓ Cloud-based application
- ✓ Highly accurate prediction
- ✓ Explainability through factor analysis
- ✓ Multiple-outputs optimization



Applicable to a variety of fields:



Mechanical Engineering



Chemical Engineering



Healthcare & Medical Sciences



Agriculture



Sales and Marketing

Trusted by 100 + leading organizations:



Trusted Security with Environmental Responsibility

- Hosted securely on Google Cloud
- Data recovery ensured even in disaster scenarios
- Regular penetration testing by third-party experts
- CO₂-free cloud infrastructure



Dr. Kotaro Kawajiri

Founder, AI Expert, Head of R&D



2014-Present



2019-2020



2011-2013



2005-2023

AIZOTH Mission

Empowering organizations to leverage AI to enhance processes and improve outcomes



Get started effortlessly



Upload a CSV file and see optimized analysis in a cloud-based, browser-friendly platform

Free Trial

Contact us to start your one-month free trial or schedule a free consultation:
info@aizoth.com | <https://aizoth.com/en/>



IS 826837 / ISO 27001



IS 826837 / ISO 27001
CLOUD 826838 / ISO 27017





1 From Standard to Superior

Conventional Solutions	VS	Multi-Sigma®
Large-Scale	 Data Required	Small
Moderate	 Accuracy	High
Black-box	 Model Interpretability	Explainable
Single Target Variable	 Output	Multiple Target Variables
Expert Knowledge Required	 Expertise	No Expert Knowledge Required
Code Required	 Programming	No-Code
High-End Hardware Required	 Machine Specifications	No High-End Hardware Required (cloud-based)

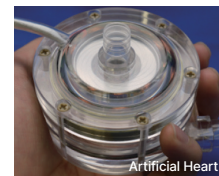
2 Cost Reduction and Productivity Improvement

Case 1 Materials Engineering



7,200 experiments are typically required

Only **30 to 60** experiments can be sufficient
Multi-Sigma® successfully reduced the number of experiments by more than **99%**



Case 2 Optimization of Aluminum Alloy Properties

Predict aluminum alloy properties from composition and processing conditions

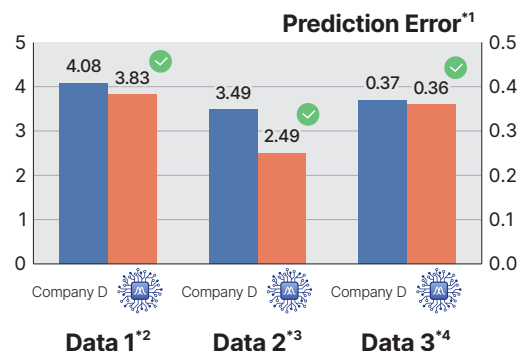
Multi-Sigma® enables:

- Quantifying element and process impact
- Identifying optimal conditions via constrained optimization



3 Unmatched Performance

Multi-Sigma® can achieve predictions with even **smaller errors** than the industry-leading product.
A significant contribution to **decision-making precision** and **operational efficiency**.



*1 : Error is evaluated using Root Mean Squared Error (RMSE),
*2 : Concrete compressive strength (plotted against the left y-axis),
*3 : Boston house prices (plotted against the left y-axis),
*4 : Pima indian diabetes data (plotted against the right y-axis).
(All the data are from Kaggle: <https://www.kaggle.com/datasets>)

Consulting Services

We, AIZOTH, also have a team of experts, including PhD holders in fields such as engineering, commerce & management, science, and statistics, as well as AI engineers and former researchers from national research institutes.

Training and Lectures:

We offer expert-led lectures and training on AI analysis and Multi-Sigma®. We also provide hands-on data analysis using your own data, tailored to your needs.

R & D support:

We collaborate with your team through regular meetings to track progress, exchange insights, and align with your goals. Our support covers everything from data analysis to AI application development, tailored to your needs.

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