



# Company Profile

**HACARUS** was founded in Kyoto as an AI startup in 2014. Our strength is the ability to extract features from small amounts of data and the high interpretability of Sparse Modeling technology. We apply Sparse Modeling technology to AI.

The current mainstream technology of AI, Deep Learning, requires a large amount of data for training and has the problem that the decision-making process of AI is a black-box. Another problem is that training on the edge side is difficult because a large amount of computing resources are required in the training phase. We are trying to solve these problems with our unique AI.

Kyoto, where our headquarters is located, is a hub of well-known companies representing manufacturing and life-sciences industries, and has many years of accumulated know-how and experience in these industries. By leveraging this know-how and experience, we are focusing on the development of AI that does not rely solely on data. We listen closely to the opinions of the people in the industries and work on the realization of AI that can coexist with humans.

## Investors



## Other Notable Investors

Shinichi Okamoto (Former CTO of Sony Computer Entertainment)  
Hiroyasu Koma (GLM Co., Ltd. CEO)  
Taizo Otsuka (KAKAXI Inc. CEO)  
Kenshin Fujiwara

## Our office

### Kyoto head office

Dai 12 Hase Building 5A  
Hashibenkei-cho, Nakagyo-ku Kyoto, 604-8151 Japan

### Tokyo R&D Center

CIC Tokyo Toranomon Business Tower 15F,  
1-17-1 Toranomon, Minato-ku, Tokyo, 105-0001, Japan

### CoLaborator Kobe office

KIBC 5 Chome-5-2 Minatojima Minamimachi, Chuo Ward, Kobe, Hyogo 650-0047

### Philippines Subsidiary

23F Tower 6789, 6789 Ayala Avenue, Makati City

## Company name

Hacarus Inc.

## CEO

Kenshin Fujiwara

## Established

2014

## Board of Directors

Kenshin Fujiwara (CEO)  
Takashi Someda (CTO)  
Yasuhiro Imamura (CFO)  
Hiroaki Okahashi (External Director)  
Shinichi Okamoto (External Director)  
Akihiro Hojo (Auditor)

## Advisors

Masayuki Ohzeki (Tohoku University, Graduate School of Information Science)  
Kaoru Kawamoto (Shiga University, Data Science Department)  
Kentaro Ohki (Kyoto University, Graduate School of Informatics)

## Main bank

Mizuho Bank Kyoto-Chuo Branch  
Kyoto Chuo Shinkin Bank Main Branch  
Bank of Kyoto Main Branch  
Senshu Ikeda Bank Kyoto Branch





# Lightweight and Explainable AI

## AI Solutions for Manufacturing and Medical Industries



### AI Academy

Since its inception in 2014 Hacarus has been focused on providing solutions and services that help the medical field provide better, faster and safer treatments, using data science an AI.

Through our AI Academy program we enable medical device and pharmaceutical companies to learn how to use tools necessary for AI development, the basics of machine learning & statistics, legalities and assessing different AI technologies.



### Data Science Consulting

As the market leader in lightweight and explainable AI, HACARUS is uniquely adept to develop custom AI solutions for clients in a wide range of industries.

Combining vast experience from customer centric AI development with data science expertise, HACARUS possesses the ability to create tailor-made solutions. Our DATA SCIENCE CONSULTING package offers a full range of AI development services including Data collection, Annotation, Data analysis, AI Model Development and Prototype Development.



### SPECTRO Visual Inspection AI

SPECTRO is an AI-based visual inspection solution that complements existing AVI / AOI systems. Supports machine learning in environments with small amounts of training data or no training data. Significantly reduces the labor costs of secondary inspection. The solution is available in the following forms.

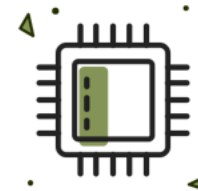
- Installable package for PC
- Web-based cloud service
- Pre-installed on box PC and industrial PC



### SALUS Medical AI

Our algorithms are tailored for medical studies, medical treatment analysis, and drug research. Data used for these use cases can range from basic health parameters, like blood pressure, heart rate, or activity level, to CT brain scan images.

Through our Sparse Modeling technology, we can extract results from small amounts of data – such as a low-resolution brain scan.



### COLIGO Edge AI

Smart edge devices can react without delay or dependencies to a cloud connection. COLIGO enables the deployment of life image analytics AI to the edge.

Our technology works with minimal effort for set-up – unlike deep learning based solutions, COLIGO does not need an external training cycle or manual installation of pre-trained models.

## Benefits of Our AI Technology



### No Big Data Required

We use sparse modeling technology that can extract features with a small amount of training data or without any training data. You can use AI in areas where large amounts of training data are not available and where collecting training data is too expensive.



### Explainable AI

Unlike deep learning, in which the decision-making process of AI is a black box, ours is visualized in a form that can be interpreted by humans. Our AI provides high interpretability in medical and mission-critical areas where it is essential to understand AI's decision-making process.



### Training and Inference at the Edge

Our technology can prevent the performance degradation of AI due to environmental changes by additional learning on the edge side. Supports both learning and inference completely offline without the need for a server or internet connection.

