

# Tomato Harvest Quantities:

KAGOME Predicting Tomato Harvest Quantities up to 5 Weeks in Advance

#Agriculture #AgriTech #High-precision predictions

AIZOTH Inc. in collaboration with Kagome Co., Ltd. and Kagome Agri-Fresh Co., Ltd., developed an AI-based fresh tomato harvest prediction system. This system aims to improve the accuracy of harvest predictions, which is crucial for balancing the supply and demand of fresh tomatoes. They successfully predicted tomato harvest volumes up to 5 weeks in advance.

## Challenge

Predicting fresh tomato harvests has traditionally been a complex task influenced by numerous variables such as climate and cultivation methods. Farm shipment personnel have relied heavily on experience and intuition, leading to inconsistencies and inefficiencies in the prediction process.

## Solution

Each weekly report meticulously detailed over 100 items per tomato variety, encompassing crucial parameters such as temperature, humidity, watering schedules, and actual harvest yields. This data was utilized for AI training. Recognizing that training AI models with all available features yields higher prediction accuracy compared to manually extracting specific features, KAGOME inputted all data to create the predictive model.

## Result

The strategic application of AI for predictions has enabled KAGOME to forecast tomato harvest quantities up to 5 weeks in advance.

# KAGOME

## Company

KAGOME CO.,LTD

## Product

Tomato products Drinks

## Industry

Agriculture

## Country

Japan



AIZOTH provides AI services such as Multi-Sigma, AI consulting, spot support to optimize manufacturing conditions, and commissioned R&D.

Multi-Sigma is the cloud-based AI software for R&D to reduce the effort of experiment drastically and also to help researchers finding the innovative solutions for their actual problems with minimum experimental dataset.

For more information, visit <https://aizoth.com/en/>.

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