# ThisFish - MLOps for Seafood Traceability and Production Workflow

Bitstrapped partnered with ThisFish to enhance their seafood traceability infrastructure. An automated training pipeline was implemented, facilitating model deployment with reduced manual intervention.

## The challenge

ThisFish's TallyVision product faced challenges in performance and scalability attributed to high latency and cost, impacting real-time decision-making and live streaming capabilities and posing challenges in understanding and optimizing performance. They saw the need for a more streamlined and scalable solution to accommodate the growing demands while ensuring cost-effectiveness and transparency.

## The solution

Bitstrapped worked with ThisFish to develop a smart edge device that performs image processing, defect detection, and fish size/color estimation on the spot in 0.5 seconds. The device uses a pre-trained model from an already annotated dataset and a scoring mechanism that reduces GPU costs by optimizing processing efficiency.

## The result

This transformation has enabled real-time decision-making by achieving a significant reduction in processing time. The automated training pipeline minimizes manual intervention, accelerating model deployment and ensuring hardware compatibility, addressing ThisFish's scalable machine learning needs, improved system performance, and cost efficiency.

> **"** We loved working with Bitstrapped. They are a highly skilled team with excellent communication and project management skills, as well as the ability to deliver projects on time. We worked closely with the delivery team who always made sure to go above and beyond to ensure that we were happy with the final product. We look forward to continuing working with Bitstrapped to develop our MLOps. **"**
>
> Nileena Thomas, R&D Engineer, ThisFish

### About ThisFish Inc.

ThisFish Inc. provides software and artificial intelligence for seafood traceability and production workflows that improve business efficiency and increase trust and transparency in seafood supply chains. With a mission to improve seafood industry sustainability, the company embraces digitization and innovation.
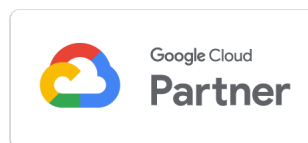
Vertical/horizontal solution: Other

Primary project location: Canada

### About Bitstrapped Inc

Bitstrapped is a Google Cloud Partner specialized in the training and transformation of businesses through Data and Machine Learning platforms.

### Products

Google Cloud Platform