Case Study

Shouldering the AI Applications in Aquaculture Sector

Background

The client was looking to develop an AI-based solution to enhance and support their business objective. Engaged into the commercial aqua farming sector, the client wanted to monitor the health of a wide range of fishes it bred, reared in a pen and related aquatic environments. With an objective to develop a healthy aquatic environment for fishes to thrive, the client was looking to train its Artificial Intelligence application with credible training data and track fish health, detect lice, and monitor fish population.

Challenges

The manual inspection and monitoring method of rearing fishes was posing a challenge to client's commercial activities. Due to which, the fish population was significantly impacted and the

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quality of the yield also suffered. Following this, the client was unable to expand its commercial operations and meet their business goals.

Solution by Cogito

The client approached Cogito Tech LLC for training data to train their AI application. Cogito provided the following solutions to meet client requirements.

- Annotation of pathogens like lice was done to detect diseases and maintain shoal health.
- Team of **45 plus** data annotators were deployed for labelling over **1 million** data files.
- Annotation methods - **2D Bounding Box** used to create high-quality training datasets.
- The annotation of images done in **1000 days** and counting.
- Three-level quality checks conducted by in-house expert data annotators.

The Impact

High quality datasets were handed over to the client within a stipulated time frame. The AI software developed at the client's end worked with high-quality training data and resulted in better yield plus helped client in meeting its business goals with required efficacy.

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9K+	>1M	99%	3
Man Hours Invested	Tasks Delivered	Accuracy	Level Quality Check

About Cogito

Cogito is a hybrid data labeling platform following model-assisted labeling (MAL) approach to cater industry's leading businesses. The MAL model leverages a human workforce to label a relevant portion of the training dataset which enables training of the AI application. Playing an important part as human-in-the-loop, our solutions encompass business verticals ranging from Retail, Manufacturing, Building, and Construction, to Medical, Food processing, E-commerce, and more.