

Smart Aquaculture Monitoring System

Optimizing Aquaculture with AI & IoT

Revolutionizing Fish Farm Management

This is an advanced aquaculture monitoring solution that integrates **real-time data analytics, artificial intelligence**, and IoT-based automation to enhance fish farm productivity, sustainability, and efficiency.



Key Features



Water Quality Monitoring

- Real-time measurement of **pH, oxygen levels, temperature, and turbidity.**
- Automated alerts for water quality deviations.
- AI-driven insights for **optimal water conditions.**



Electrical Infrastructure Monitoring

- Tracks **energy consumption** of aerators, filtration, and circulation systems.
- Smart detection of **equipment failures and inefficiencies.**
- Reduces **operational costs** with predictive maintenance.



Sustainable & Cost-Effective

- Scalable to **multi-pond operations.**
- Reduces **water waste, energy use, and feed losses.**
- Enhances **fish welfare and environmental sustainability.**



AI-Based Biomass Estimation

- Underwater camera and **AI-powered image analysis.**
- Estimates fish biomass and population in **real time.**
- Optimizes **feeding strategies and growth tracking.**



Cloud-Based Alerts & Analytics

- Web & mobile dashboard for **remote monitoring.**
- AI-powered **predictive analytics for disease prevention.**
- Customizable reports & **automated alert notifications.**

Why Choose IDT-FishCare?

- Increases farm productivity & efficiency
- Reduces operational risks with predictive maintenance
- Optimizes fish health & biomass management
- Minimizes environmental impact
- Provides real-time, AI-driven insights

**Transform Your
Aquaculture
Operations Today!**

Get in Touch



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