Edge Machine Learning

Put the smarts *inside* your smart device

ResCon Technologies provides real-time machine learning-based data analysis, enabling on-device Digital Twin creation and predictive health capabilities using the embedded microcontrollers already present in your smart device.

Perform ML here

NOT here → Cloud
→ GPUs
→ Neuromorphic Chips

➢ FAST
Learns and predicts future system states using *one million times less data* compared to Deep Learning

➢ LOW POWER
Minimum data requirements mean min compute cycles and a fraction of the power to train your model

➢ INEXPENSIVE
Use ubiquitous microcontroller hardware—no need for expensive and power-hungry GPUs or specialized chips

ResCon uses its patent-pending Next-Generation Reservoir Computing (NG-RC) algorithm to take machine learning out of the cloud and bring it to the edge. NG-RC will:

- Minimize latency by computing directly on device; no need to wait for upload to the cloud or a post-mission data dump
- Make predictions sooner by creating a valid model using shockingly small datasets
- Bring ML insights to the smallest of subsystems—if there's a microcontroller, there's room for NG-RC and an edge Digital Twin!

Key Use-Cases:
- Data Fusion and State Estimation
- Adaptive Control
- Anomaly Prediction
- Fault Detection

Next-Generation Reservoir Computing
Edge-compatible ML for IoT, smart wearables, and nex-gen autonomy

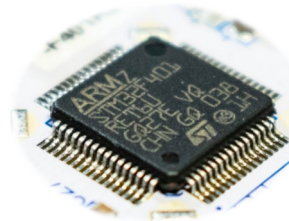Brian Gyovai, Founder & CEO
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Move your insights to the edge.