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RZ Ecosystem Partner Solution

Ignitarium Human Pose Detection and Classification

Solution Summary

Pose detection and classification is a software component which detects and classifies all important human poses using 2D Camera and deep learning. Support is now available for RZ/V2M.
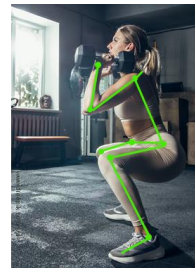
Features / Benefits

- Suitable for real time detection on edge devices
- Detects human pose / key points and recognizes movement / behavior
- Option of choosing from best-in-class pose detection networks depending on end application
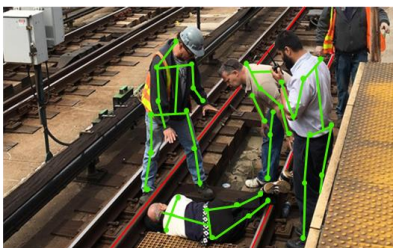- High performance and accuracy

Diagrams / Graphics

Visual input (image/video) → Pre-processing → DL based keypoints estimator → ML based keypoints classifier → Detected pose
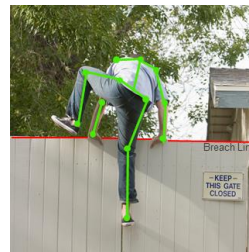
Patient Monitoring system – Elderly / Baby care

Sports / Exercise analytics

Behavior Detection - Safety Monitoring

Behavior Detection - Suspicious Activities

Target Markets and Applications

- Patient Monitoring in Hospitals
- Surveillance – Behavioral analytics (Suspicious behavior, safety monitoring)
- Patient pose adjustment for diagnostics
- Sports / Exercise pose analytics
- Retail analytics

www.ignitarium.com

2022.02

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Product Engineering services

Long-standing ecosystem Partner for Renesas

2012	**100+**	**95%+**
Year Established	**Projects Delivered**	**Customer Retention Rate**

Highlights

- Ignitarium is a boutique product engineering house that combines its expertise in Semiconductor, Embedded software and AI to realize cost-effective system solutions to solve demanding real-world use cases

- With focussed efforts in building capabilities in AI and Robotics, Ignitarium has emerged as a trusted engineering partner for large global enterprises as well as AI start-ups

Services Overview

- Software Design Services
- AI & Cloud Software
- Silicon Design Services
- Solutions

Automotive Medical Consumer Electronics

Industrial Robotics

Focus Areas

- Perception AI
  - Camera, Lidar, Radar
  - Audio AI
- Data Analytics (time-series data)

AI Software offerings

Data Preparation		Model Porting & Optimization
Model Development	MLOps Best Practices	Benchmarking
System Architecture & Application		Utilities & Tools