iOmniscient

SUSTAINABLE AI

Limited training,
GPU-free computing and lower energy demand

iOmniscient

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Beyond Deep Learning

Effective analytics when large training datasets are unavailable

DEEP LEARNING

AI is not limited to Machine Learning or Deep Learning.

Machine Learning and Deep Learning can be infeasible when training data is insufficient.

iOmniscient APPROACH

Alternative algorithms emulate human intelligence with limited sample data.

The capability is internationally patented.

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Limited Training Data

Rare events can leave too few examples to train on

PRISONS

Detection of suicides.

EQUIPMENT

Failures in long-lasting machinery.

CHILD SAFETY

Detection of abuse to young children.

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No GPUs

Computing-light algorithms reduce hardware and labour needs

NO GPUs

Computing-light algorithms need no GPUs.

HOURS OR DAYS

Limited labelling and training shorten implementation from months to hours or days.

LOWER COST

Less data labelling reduces labour;
eliminating GPUs removes their cost.

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Lower Carbon Footprint

Power savings from eliminating GPUs

UP TO 16×

Eliminating GPUs can reduce the system carbon footprint by up to 16 times.

LESS POWER

Advanced AI requires 16 times less power.

INTEL

All iOmniscient products run on Intel-based computing hardware.

IoT & Edge Efficiency

Intel-based IoT and edge solutions help commercial and industrial organizations make faster, better-informed decisions.

Automating routine tasks allows employees to focus on higher-level activities.

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Multi-Sensory AI

Video, sound and smell support autonomous action

01

SENSE

Video, sound and smell help the system understand the environment.

02

DETECT

The system becomes aware of safety, security and efficiency events.

03

DIRECT

It finds the appropriate responder and tells them where to go and what to do.

Autonomous operation can reduce personnel needs.

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Privacy with Awareness

Alerts remain possible while operators cannot recognize people

OPERATOR VIEW

Operators cannot recognize a person in protected streams.

SYSTEM ACTION

The system remains aware and raises relevant alerts.

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About iOmniscient

Partnership

All iOmniscient Products run exclusively on Intel based computing hardware using OpenVINO™

- The use of Advanced AI technology that goes beyond Deep Learning enables iOmniscient to run its systems without the need for 3rd party GPUs.
- This reduces the power required by a factor of 16 – resulting in a 16-fold reduction in the carbon footprint.
- This is just one part of a multi-faceted program to help customers to implement Sustainable Systems.

www.iomni.ai

enquiries@iomni.ai

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About iOmniscient

- iOmniscient is an **Ethical AI** company.
- It offers **multi-sensory (video-sound-smell) Artificial Intelligence based analytics for Autonomous Systems.**
- It focuses on ensuring **Outcomes** for its customers.
- With **over 2 decades of experience,** iOmniscient systems have been demonstrated to be **robust,** operating with high accuracy and few false alarms specially in **complex and crowded** environments.
- By design, its systems **reduce the cost of infrastructure** required:
  - they can use existing cameras
  - they require fewer cameras with lower resolution
  - they require 90% less storage and network bandwidth
  - they are computing light and require no GPUs
  - they allow autonomous operations requiring fewer personnel to operate
- iOmniscient has implemented projects in **70 countries.**
- With over **70 international patents** many of its capabilities are unique and unavailable from any other source.





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