Sentinel

Unlock Ambient Intelligence inside your smart stores.

Sentinel is an **advanced ambient intelligence** platform by Neophyte.ai, designed to transform retail spaces using cutting-edge AI and computer vision. By leveraging your existing CCTV infrastructure and integrating seamlessly with IoT and RFID systems, Sentinel offers a 360° view into customer behavior, in-store operations, and physical conditions of the premises.

Whether it's understanding how customers interact with your products, ensuring the cleanliness and appeal of your store, or optimising employee productivity—Sentinel empowers data-driven decision-making to enhance the retail experience end-to-end.

Key Features

Customer Behavior Analytics

1 Flow & Movement Tracking

Visualize how customers navigate the store for smarter layout planning.

2 Dwell Time Analysis

Identify high-engagement zones and optimize product placement.

3 Gaze, Attention & Sentiment Mapping

Track eye movement, product interaction, and emotional responses to evaluate the visibility, effectiveness, and emotional impact of signage, advertisements, and product displays.

4 Associate Interaction & Conversion Insights

Analyze sales interactions and influence on purchase decisions.

5 Self-Checkout Monitoring

Ensure accurate scanning, payment, and minimize loss.

6 Queue Management

Monitor and manage checkout lines for faster service.

Industries We Serve

- **Retail Chains & Supermarkets**
- **Luxury & Fashion Boutiques**
- **Pharmacies & Healthcare Stores**
- **Quick-Service Restaurants (QSRs)**
- **Electronics & Appliance Showrooms**
- **Airport & Transit Retail Spaces**

Premises Intelligence

1 Store Ambience Monitoring

Assess lighting, cleanliness, and visual appeal using AI-driven image analytics.

2 IoT & RFID Integration

Capture real-time temperature, humidity, air quality, and odour levels.

3 Maintenance Alerts

Detects cleanliness lapses or anomalies to trigger timely action.

4 Employee Productivity Insights

Monitor staff presence, movement, and task efficiency to optimize workforce management.

Business Impact

1 **Boost Sales Through Behavioral Insights**

Leverage gaze mapping, dwell time, and interaction analytics to optimize store layouts, product placement, and promotional displays—driving higher engagement and conversions.

2 **Reduce Losses & Enhance Operational Efficiency**

Minimize theft, scanning errors, and maintenance issues through real-time monitoring of self-checkout, cleanliness, and IoT-triggered alerts.

3 **Elevate Customer Experience & Store Appeal**

Ensure a consistently clean, well-lit, and visually appealing environment while reducing queue times and improving service flow with AI-driven queue and ambience management.

4 **Empower Teams with Data-Driven Intelligence**

Enhance associate productivity and sales performance using actionable insights from staff-customer interactions and centralized dashboards for informed decision-making.

How Sentinel Works

1 **Visual Data Ingestion**

Sentinel taps into your existing video feeds and IoT devices.

2 **AI-Powered Processing**

On-device or cloud-based models analyze visual, spatial, and sensory data in real time.

3 **Insight Inference**

Interactive dashboards and alerts provide intelligence across customer behavior, staff performance, and store ambience.

4 **Continuous Learning:**

Machine learning models improve accuracy and adapt to store-specific patterns over time.

Benefits Of Sentinel

☑ **No Hardware Overhaul** – Utilizes your existing CCTV and sensor infrastructure

☑ **Scalable & Modular** – Adaptable across single outlets or nationwide chains

☑ **Real-Time Insights** – Actionable dashboards for instant decision-making

☑ **Privacy-Compliant** – Built with edge processing and anonymized data capture

☑ **Custom Alerts & Reports** – Stay ahead with proactive intelligence

☑ **Enhanced Employee Productivity** – Optimize associate availability and effectiveness

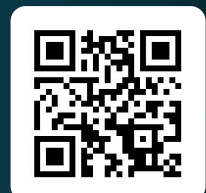**See the unseen in your shoppers, sense your store space; powered by ambient intelligence.**

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