

# AIMonitor - Smart Education System

by iRiS TechSol LLP

[www.iristechno.in](http://www.iristechno.in)

## Product Description

The **AIMonitor - Smart Education System** is an innovative AI-powered platform designed to revolutionize classroom management and education analytics. Catering to multiple user roles—Super Admin, Principal, Teachers, Students, Staff, and Parents—the system ensures streamlined operations and improved engagement through a **Web application** and **Mobile app**. Built on a modern **Edge computing architecture** and backed by a **Cloud server**, it combines low-latency processing with scalability for enhanced performance.

### Web Application

The web application features a **user-friendly UI** and a vast array of tools for analytics and management:

- **Student-wise, Subject-wise, Topic-wise Performance:** Gain deep insights into individual student progress across subjects and topics.
- **Student Attendance and Lecture Management:** Automates attendance tracking and lecture scheduling for seamless operation.
- **Teacher Tools:** Teachers can publish tests, upload notes, and utilize **lecture analytics** to gather feedback and improve teaching methods.
- **Comprehensive Analytics Dashboard:** Provides actionable insights through a centralized interface, making performance, behavior, and engagement metrics easily accessible.

### Mobile Application

The mobile application offers **real-time notifications** and enables students and parents to stay connected on the go:

- Students can **give tests**, **access notes**, and identify **weak areas** through personalized performance analytics.
- Teachers, staff, and parents can receive updates and insights in real time to stay informed and engaged.

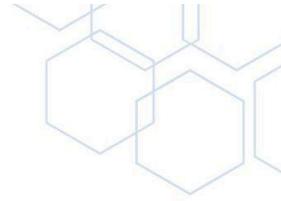
### AI-Driven Security and Analytics Features

With robust security measures such as **Restricted area entry**, **People counting**, **Fire alarms**, **Arm detection**, **Panic Gesture detection**, **Fall Detection** the system ensures a safe and secure environment. It also provides advanced analytics, including **Attendance Monitoring**, **Tracking across cameras**, **Uniform Detection**, **Behavior analytics**, **Attentiveness monitoring**, and **performance tracking**, to foster an optimized and interactive learning ecosystem.

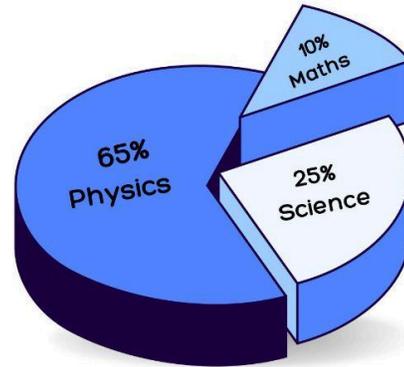
This AI-driven system combines Education, Safety, and Analytics into a single platform, empowering stakeholders to create a smarter, safer, and more engaging educational environment.



# Behavior Analysis



## Engagement Analytics:



Lecture Engagement Overview

Top Teacher: ▶ Prof. David | ▶ Prof. Sophia

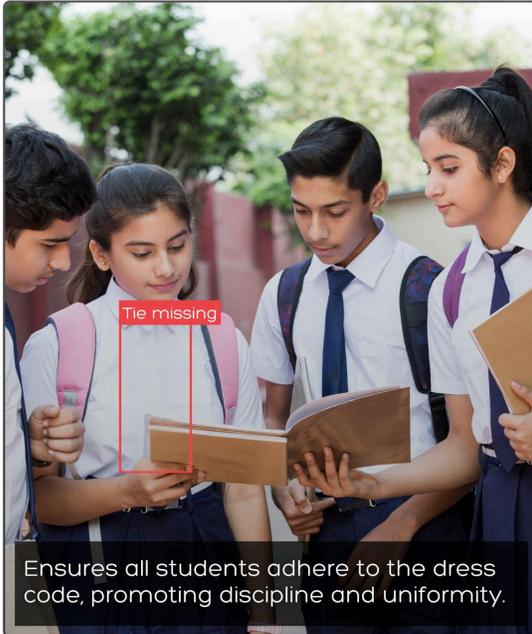
**81%** Attentive      **12%** Unattentive      **4%** Pro Activeness

Q Search Student Name      Subject ▼      Month ▼

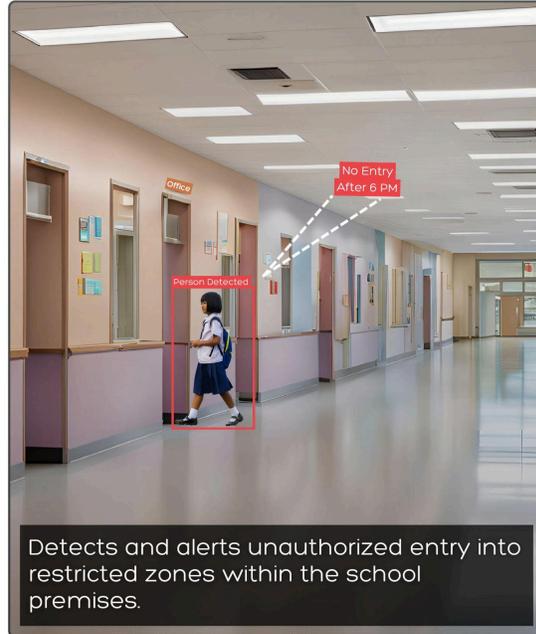
	Attentive	Unattentive	ProActive
john Doe	81%	14%	5%
Jordon Luice	70%	18%	12%
Allex Mark	76%	16%	8%

Discover lecture-wise trends, student behavior insights, and top-performing teachers to drive impactful learning experiences.

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Ensures all students adhere to the dress code, promoting discipline and uniformity.



Detects and alerts unauthorized entry into restricted zones within the school premises.



Detects and alerts unauthorized entry into the library or designated areas after the permitted hours.



Helps locate individuals across the school premises. The system identifies and reports a student's current location when their name is entered.

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### Emergency Features

Raise both hands and wave three times.



Designed to handle critical situations, enabling quick and effective responses to emergencies.



### Crowd Alert

Maintain crowd control effortlessly



Monitors key areas prone to overcrowding and provides real-time alerts to maintain order and safety.



### Arm Detection



Identifies the presence of weapons within the premises, enhancing security measures.



### Pet Detection

Area: Playground



Monitors and detects unauthorized animals within the school premises to maintain hygiene and safety.

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### Attendance System



### Fall Detection



Use face recognition to accurately track student attendance, eliminating manual efforts and saving lecture time.



Recognizes accidental falls and alerts the concerned authorities to ensure timely assistance.



### Fire Detection



Detects fire incidents promptly, triggering immediate alerts and facilitating evacuation plans.

## Product Features & Variants

Basic Package (Select any 1 feature among Optional features)

AI-Feature	Enable/Disable
<b>People Count Alert (Optional)</b>	<input checked="" type="radio"/>
Face Registration (Mandatory)	<input checked="" type="radio"/>
Face Recognition (Mandatory)	<input checked="" type="radio"/>
Attendance Monitoring (Mandatory)	<input checked="" type="radio"/>
Behaviour Analysis (Mandatory)	<input checked="" type="radio"/>
Attentiveness Analysis (Mandatory)	<input checked="" type="radio"/>
<b>Fire Alerts (Optional)</b>	<input checked="" type="radio"/>
<b>Arm Detection Alerts (Optional)</b>	<input checked="" type="radio"/>
<b>Pet Detection Alerts (Optional)</b>	<input checked="" type="radio"/>

Advance Package ( Select any 3 features among Optional features)

AI-Feature	Enable/Disable
Restricted Area Alerts (Optional)	<input checked="" type="radio"/>
Fire Alerts (Optional)	<input checked="" type="radio"/>
Arm Detection Alerts (Optional)	<input checked="" type="radio"/>
Fall Detection Alerts (Optional)	<input checked="" type="radio"/>
Panic Gesture Alerts (Optional)	<input checked="" type="radio"/>
People Count Alerts (Optional)	<input checked="" type="radio"/>
Pet Detection Alerts (Optional)	<input checked="" type="radio"/>
Face Registration (Mandatory)	<input checked="" type="radio"/>
Face Recognition (Mandatory)	<input checked="" type="radio"/>
Attendance Monitoring (Mandatory)	<input checked="" type="radio"/>
Uniform Detection (Specific 1 property)(Optional)	<input checked="" type="radio"/>
Behaviour Analysis (Mandatory)	<input checked="" type="radio"/>
Attentiveness Analysis (Mandatory)	<input checked="" type="radio"/>
Tracking across Cameras (Optional)	<input checked="" type="radio"/>

## Main Features Details

### Behaviour Analysis :

We are able to detect student wise emotions if the student is registered using our face registration system. We are detecting **Alert, Excited, In-Doubt, Amazed, Struggling, and Impatient emotions** from the student's face with **accuracy**.

### Attentive Analysis :

- Student's face is in-front of teacher (camera facing)
- If a student's face emotions are **Excited, Alert, Amazed, In-Doubt**.

**UnAttentive Analysis :**

- Student's face is **not** in-front of teacher (camera facing)
- If Student's face emotions are **Struggling, Hesitant**

## Contact Details

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