

REDEFINE SECURITY with

AI-Enabled

# Close Circuit Artificial Intelligence (CCAI)

"From Reactive Monitoring to Proactive Intelligence"

Alwajeez Tech

# Project Overview & Vision

**CCAI represents the future of intelligent security,** transforming operations from exhausting 24/7 surveillance into an intelligent, incident-driven model that dramatically reduces costs while enabling faster, more precise responses.

- ✓ Eliminates burden of continuous human monitoring
- ✓ Empowers security teams to focus on meaningful threats
- ✓ Creates safer environment while freeing human resources

**AI-powered video surveillance intelligence platform** delivered as a .NET desktop application that seamlessly integrates with existing NVR systems, automatically detecting, analyzing, and alerting on specific security incidents.



# Project Goals & Success Metrics



## Reduce False Alarms

Eliminate up to 95% of false alarms through advanced AI object recognition

**90%+**



## Incident Response Time

Real-time detection and automated alerting for faster threat mitigation

**<30s**



## Security Labor Costs

Eliminate continuous 24/7 human monitoring requirements

**30-50%**



## Investigation Time

Transform forensic video review from hours to seconds

**85%**



## Return on Investment

Combined savings from staffing costs and prevented incidents

**200-400%**



# Core Features & Maximum Benefits (Part 1)



## Intelligent AI Monitoring

AI models continuously analyze live footage to detect specific incidents including loitering, unauthorized access, and unusual behavior patterns.

**Eliminates 24/7 Staffing Costs: 30-50% reduction in labor costs**



## Automated Incident Alerts

System sends real-time notifications with incident snapshots and direct video links when AI detects predefined events.

**Proactive Security: Response times under 30 seconds**



## Seamless NVR Integration

Desktop application connects directly to popular NVR systems (Hikvision, Dahua, Axis) via their SDKs.

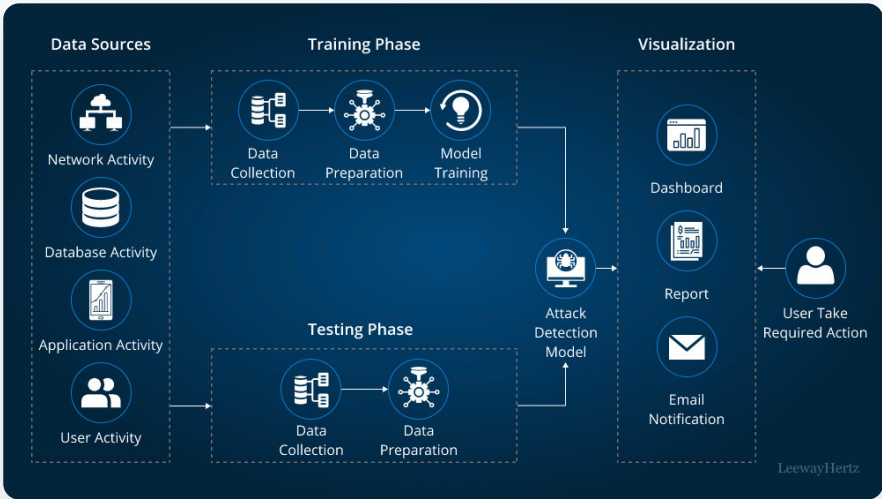
**Leverages Existing Hardware: No replacement costs**



## Advanced Natural Language Search

Powerful search interface allows users to find incidents using intuitive queries with date/time filters.

**Reduces Investigation Time by 85%**





# Core Features & Maximum Benefits (Part 2)



## Integrated Video Playback

Watch retrieved video clips directly within the application interface with support for multiple simultaneous streams.

 Streamlined Workflow: All-in-one platform



## Incident-Based Clip Export

Easily save relevant video clips automatically organized by incident type, date, time, and camera.

 Simplified Reporting & Compliance



## False Alarm Reduction Engine

Advanced AI algorithms distinguish between genuine threats and benign triggers using deep learning.

 90-95% Reduction in False Positives



## AI-Powered Video Analytics

Deep learning models provide object detection, classification, tracking, and behavioral analysis.

 Enhanced Situational Awareness



# Technical Architecture & Deliverables

## .NET-based Windows Desktop Application (WPF)



### Main CCAI Application

WPF-based UI with dashboard, alert panels, and video controls



### AI Analysis Engine

ONNX Runtime with pre-trained models for incident detection



### NVR Integration SDK

Connectors for Hikvision, Dahua, and ONVIF protocols



### Database & Storage

SQL Server/SQLite for incident logs and metadata



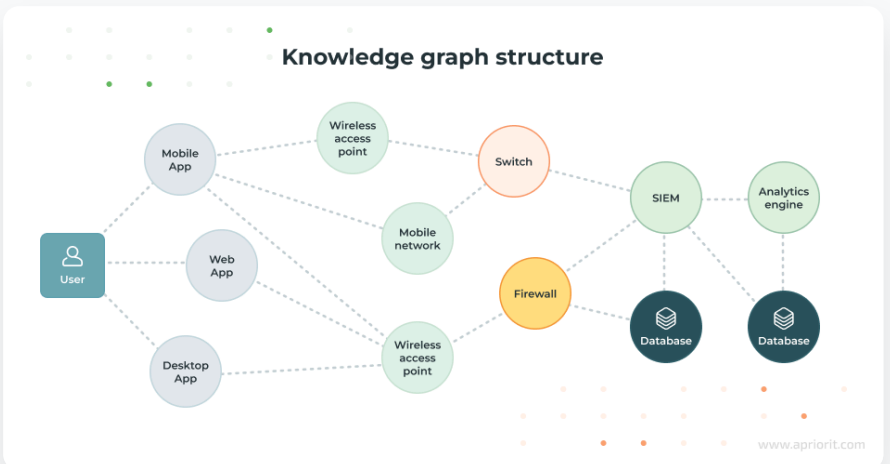
### Configuration Tool

Setup wizard for NVR connections and camera configuration



### Documentation Package

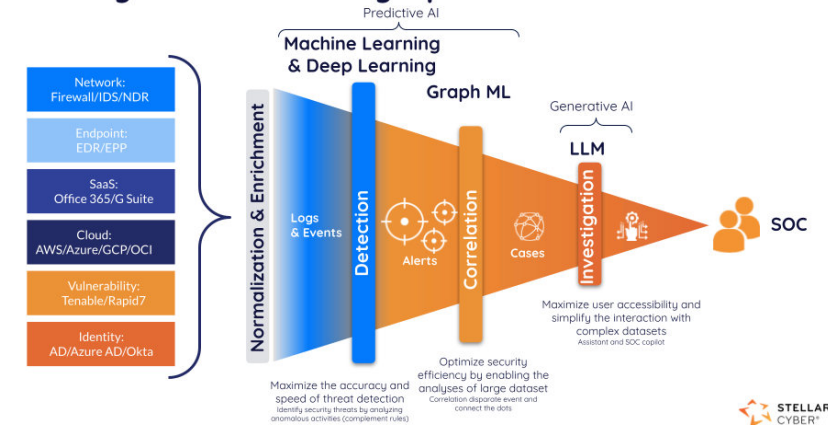
Installation guides, user manuals, and API documentation



# High-Level Project Phases

- 1** **Discovery & SDK Selection** Weeks 1-2
  - ✓ SDK Evaluation
  - ✓ AI Model Selection
  - ✓ Architecture Design
- 2** **Core Application Development** Weeks 3-8
  - ✓ WPF Interface
  - ✓ NVR Integration
  - ✓ Database Layer
  - ✓ Video Playback
- 3** **AI Integration & Testing** Weeks 9-14
  - ✓ ONNX Runtime
  - ✓ Model Optimization
  - ✓ Alert System
  - ✓ Search Function
- 4** **UI/UX Polish & Deployment** Weeks 15-16
  - ✓ Interface Refinement
  - ✓ User Testing
  - ✓ Documentation
  - ✓ Deployment Prep

## Multi-Layer AI for Security Operation



# Target Audience & Key Benefits Summary

## Primary Audience

 Security Managers

 Business Owners

 Facility Managers

 Corporate Security Directors

 Educational Administrators

 Healthcare Security Personnel

## Top 5 Benefits

**1 Slash Security Operational Costs**  
Reduce labor costs by **30-50%** while maintaining superior 24/7 coverage

**2 24/7 Unblinking Vigilance**  
AI never tires, with **90-95%** false alarm reduction

**3 Accelerate Incident Response**  
Real-time detection with **71-75%** faster response times

**4 Powerful Natural Language Search**  
Transform investigations from hours to **seconds**

**5 Enhanced Safety & Loss Prevention**  
Prevent **\$50,000-\$500,000** loss per incident





# About Alwajeez Tech

**Alwajeez Tech** specializes in delivering cutting-edge technology solutions that transform business operations across Saudi Arabia and the Middle East.



## ERP Systems

Comprehensive enterprise resource planning solutions



## Custom Software

Tailored applications for unique business needs



## AI Integration

Advanced artificial intelligence solutions



## Business Intelligence

Data-driven decision making platforms



## Our Commitment

Empowering organizations to achieve **operational excellence** through innovation and delivering **measurable return on investment** with our CCAI system.



# Thank You & Next Steps

## Thank You

We appreciate your time and interest in our **CCAI solution**. Together, we can transform your security operations from reactive monitoring to proactive intelligence.

### ↗ Next Steps



Schedule Demo



ROI Analysis



System Assessment



Partnership Discussion



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