



AAR - Automated Academic Reporting

Academic Intelligence Layer

Institutional Overview

Greater Accra, Ghana

For Institutional Review

Purpose of the AAR System

AAR is an AI-powered Academic Intelligence Layer that transforms raw educational data into actionable insights. Unlike traditional systems that simply store data, AAR analyzes every data point automatically, predicts outcomes, detects patterns, and provides recommendations—enabling intelligence-driven decision-making throughout the term.

Core Intelligence Components:

- AI-powered performance analysis (automated narratives)
 - Predictive at-risk identification (2-3 months early)
 - Pattern recognition (bias detection, teaching trends, curriculum gaps)
 - Continuous learning (system gets smarter over time)
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Challenges in Traditional School Systems

Private schools face systematic gaps in academic intelligence:

- **Data without insights** – Schools drown in numbers but lack understanding of what they mean
 - **Reactive discovery** – At-risk students identified after they fail, not before
 - **Manual analysis burden** – Teachers spend hours analyzing patterns that AI could detect instantly
 - **Pattern blindness** – Grading bias, teaching effectiveness trends, and curriculum gaps go undetected
 - **Static systems** – Traditional software doesn't learn or improve over time
 - **No predictive capability** – Decisions based on historical data, not future projections
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The AAR Intelligence Framework

AI-Powered Performance Analysis

Every biweekly report includes automated class performance narratives—zero manual analysis required.

The AI analyzes:

- Class-wide performance trends and patterns
- Subject-specific strengths and weaknesses
- Comparative analysis across assessment types
- Performance distribution and outliers
- Improvement or decline trajectories

Result: Teachers receive AI-generated insights automatically, saving hours of manual analysis while gaining deeper understanding.

Predictive At-Risk Identification

Machine learning identifies struggling students 2-3 months before they fail, enabling early intervention.

The system predicts risk based on:

- Performance trajectory analysis
- Attendance pattern correlation
- Assessment score trends
- Comparative peer performance
- Historical success indicators

Result: Proactive intervention when it matters, not reactive discovery after failure.

Pattern Recognition & Bias Detection

AI automatically detects patterns that would be impossible to find manually.

Patterns identified include:

- Grading bias (teacher-specific patterns)
- Teaching effectiveness trends
- Curriculum gap identification
- Subject-specific challenges
- Class-level performance anomalies

Result: Data-driven insights for improving teaching quality and curriculum design.

Continuous Learning System

AAR gets smarter over time, learning your school's unique patterns and improving recommendations.

The system learns:

- School-specific performance baselines
- Effective intervention strategies
- Seasonal performance patterns
- Subject difficulty calibration
- Student success predictors

Result: Increasingly accurate predictions and more relevant recommendations as the system learns.

How AAR Intelligence Operates Within a School

1. Teachers input assessment data—AI begins analyzing.

Teachers enter grades through intuitive interfaces (including voice entry and Flash Mode). The moment data is entered, AI begins pattern analysis.

2. Machine learning identifies outliers and predicts outcomes.

The system analyzes every data point against historical patterns, peer performance, and success indicators to identify at-risk students and outliers.

3. AI generates performance narratives automatically.

Every biweekly report includes AI-generated class performance analysis—no manual work required from teachers.

4. Predictive intelligence triggers proactive interventions.

When the system predicts a student will struggle, it alerts teachers and administrators 2-3 months before failure occurs.

5. Pattern recognition provides actionable recommendations.

AI detects grading bias, teaching effectiveness trends, and curriculum gaps, providing specific recommendations for improvement.

6. System learns continuously, improving over time.

With each term, AAR's predictions become more accurate and recommendations more relevant as it learns your school's unique patterns.

Academic Intelligence and SBA Alignment

AAR's intelligence layer is specifically designed for Ghana Education Service requirements with AI-powered recommendations.

AI-Powered SBA Strategy Recommendations

- Multiple calculation strategies with AI-powered impact analysis
- Preview how different strategies affect class performance
- Automatic identification of optimal strategy for fairness
- Real-time strategy comparison and performance lift calculation
- Intelligent recommendations based on assessment distribution

Predictive Compliance Monitoring

- AI predicts which teachers will miss SBA finalization deadlines
- Proactive alerts before compliance issues occur
- Pattern analysis of historical compliance behavior
- Automated deadline tracking with intelligent reminders

Intelligent Grading Analysis

- Automatic detection of grading bias patterns
- Teacher-specific grading trend analysis
- Subject difficulty calibration recommendations
- Assessment type effectiveness evaluation
- Fairness metrics across classes and teachers

Continuous Academic Intelligence

- Historical performance pattern recognition
 - Predictive analytics for student success
 - Curriculum gap identification through AI analysis
 - Teaching effectiveness trend detection
 - Data-driven recommendations for improvement
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Onboarding and Activation Timeline

Week 1: Initial Setup

School Configuration

- School profile creation
- Administrator account setup
- System access provisioning
- Initial orientation session

Data Structure

- Class definitions and levels
- Subject configuration
- Academic term setup with biweekly intervals
- Grading system alignment

Week 2: Data Migration & Training

Data Import

- Student records with parent contact information
- Teacher accounts and assignments
- Class rosters and subject allocations
- Historical data transfer (if applicable)

Training Sessions

- Administrator training (2 hours): System oversight, reporting, analytics
- Teacher training (2 hours): Grade entry, assessments, comments
- Hands-on practice with test data
- Documentation and reference materials

Week 3: Go-Live

First Reporting Cycle

- Teachers enter initial grades and attendance
- System generates first biweekly reports
- Email delivery to parents
- Monitoring and support

Ongoing Support

- Issue resolution and troubleshooting
- Feedback collection and adjustments
- Continuous improvement based on usage patterns

Per Student Per Term Pricing

AAR operates on a transparent per-student pricing model with automatic volume discounts.

Service	Price Per Student Per Term
Academic Intelligence Layer	GHS 40

All intelligence features included regardless of tier:

- AI-powered performance analysis (automated narratives)
- Predictive at-risk identification (2-3 months early)
- Pattern recognition (bias detection, teaching trends)
- Student deviation tracking (machine learning outliers)
- Continuous learning system (improves over time)
- Actionable recommendations (not just data)
- Complete system access with unlimited users
- Full analytics and intelligence suite
- School branding capabilities
- Email and phone support

Payment Options:

- Term payment: Pay per academic term (4 months)
- Annual payment: Pay for 3 terms upfront

Mid-term onboarding activates reporting through the next academic cycle.

Schools joining mid-term receive full term access from activation date, ensuring complete value regardless of enrollment timing.

Institutional Support

Demonstration Scheduling

Schedule a live demonstration to see AAR's intelligence in action:

- AI-generated performance narratives demonstration
- Predictive at-risk identification walkthrough
- Pattern recognition capabilities showcase
- Continuous learning system explanation
- Questions and answers specific to your institution
- Implementation timeline discussion

Onboarding Support

Comprehensive onboarding ensures smooth activation:

- Dedicated implementation specialist
- Data migration assistance
- Administrator and teacher training
- Go-live monitoring and support

Technical Assistance

Local Ghana-based support team:

- Email support: info@archov.com
- Phone support: +233 55 858 2672
- Business hours: Monday-Friday, 8:00 AM - 5:00 PM
- Response time: Within 24 hours
- In-person meetings available (Oyibi office)

Contact Information

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