



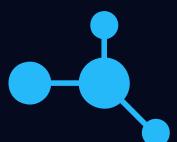
DATACLYSM
AGENTIC AI, BUILT FOR
ENTERPRISE & EDUCATION

Halo: First AI-Native Education App

The only platform that predicts student risk, explains why,
and acts automatically



Presented by
Dataclysm



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The Problem We're Solving



School Leaders

Buried in 3+ systems
to find one answer
about student risk

Teachers

Spend 10+
hours/week on admin
instead of teaching

Parents

Discover their child is
struggling only when
it's too late to help

A \$25 Billion Problem in Australian Education

The Market:

9,500+

Australian Schools

4M

Students

350K+

Teachers facing burnout

The Crisis:

4 months

Additional academic progress per year from parent engagement

Evidence for Learning Australia, 2024

69%

Teachers report unmanageable workloads.

UNSW Sydney, 2025

\$616,200

Social Impact of preventing one dropout.

Lamb & Huo, 2017, Mitchell Institute

The Opportunity:

- Education technology spend growing 15% annually
- Schools desperately need early-intervention tools
- No Australian or International AI-native platform exists



Why Halo Education?



Fully customizable app with co-design at heart. Halo adds an AI layer to your LMS and SIS, predicts risk early, reduces staff admin, and supports timely family communication.

Demand

Staff need early-warning tools, families expect timely updates



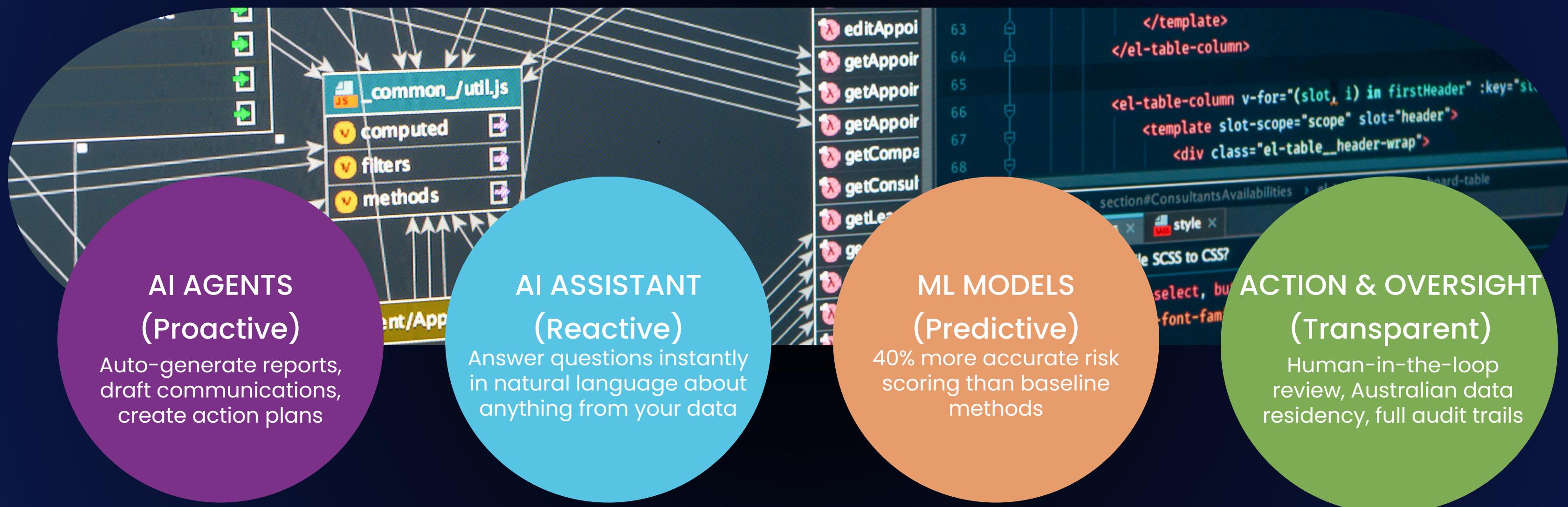
Trust

Australian data residency, complete audit trails, and school-controlled customization at every level

Growth

Earlier interventions, measurable time savings, better outcomes.

How Halo Works: AI-Native Architecture: Built Different From Day One



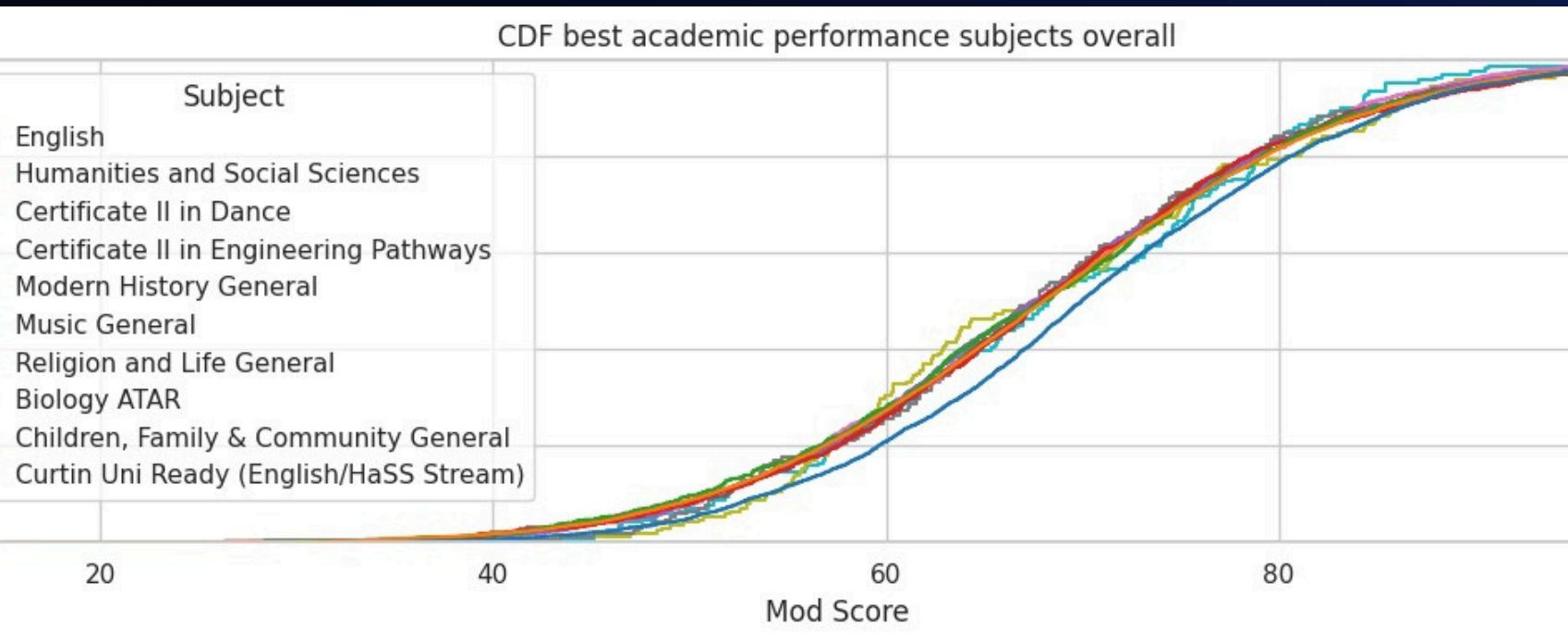
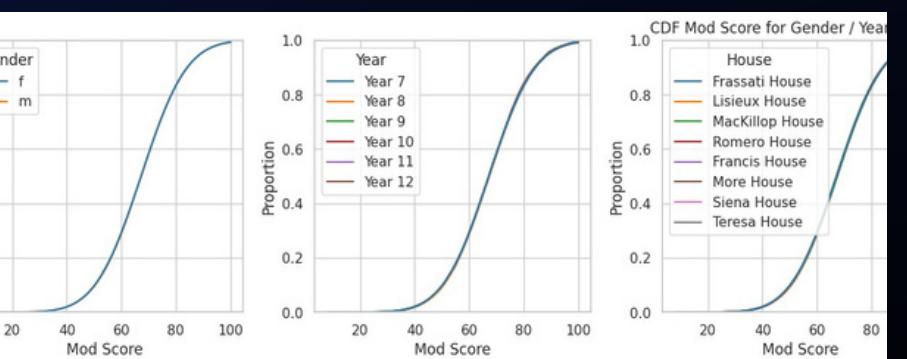
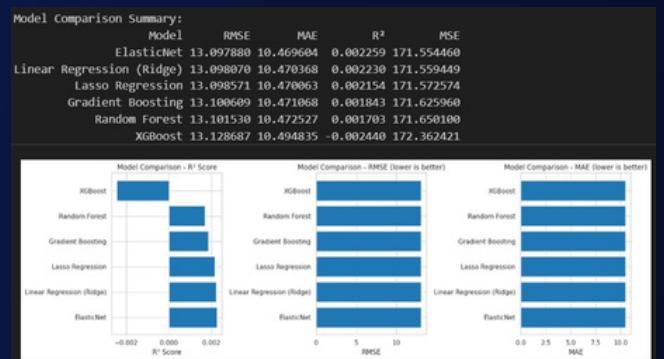
While competitors retrofit AI onto old systems, Halo is architected AI-first—enabling capabilities impossible for legacy platforms

Early App Development

The collage illustrates the early stages of developing the Halo Catholic Education application, showcasing various dashboards and data analysis features.

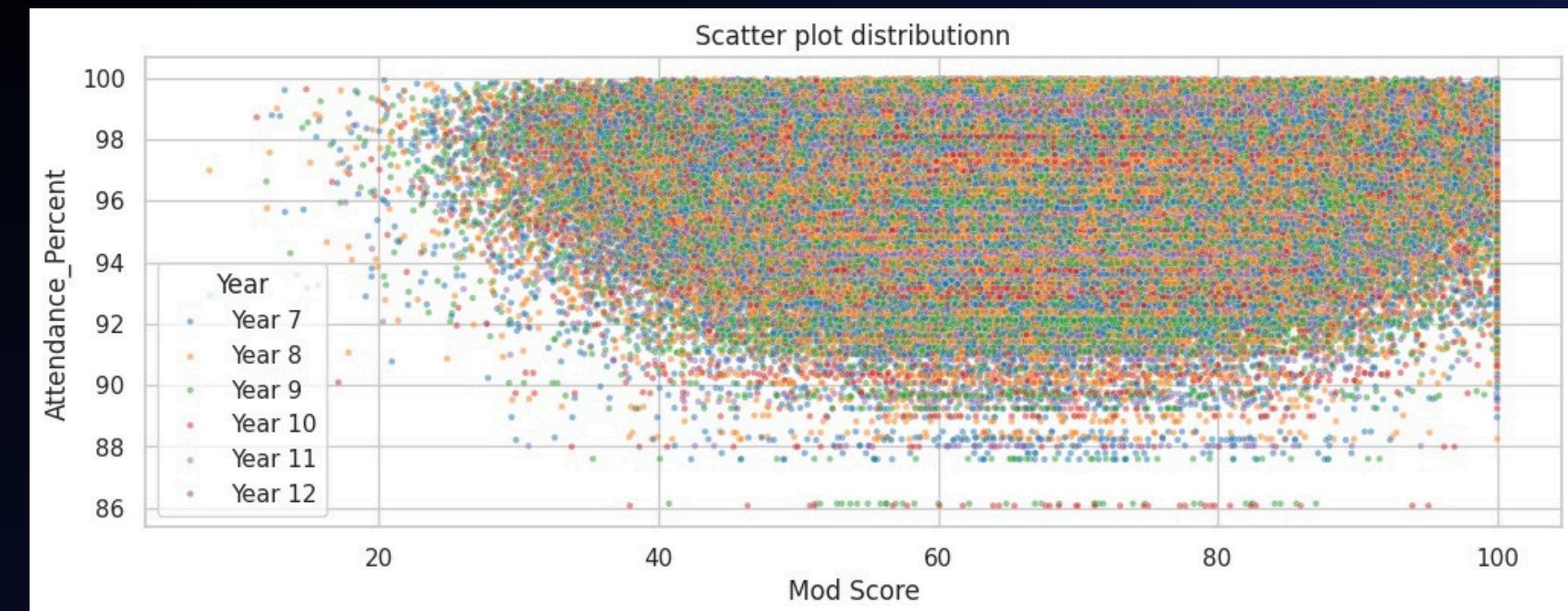
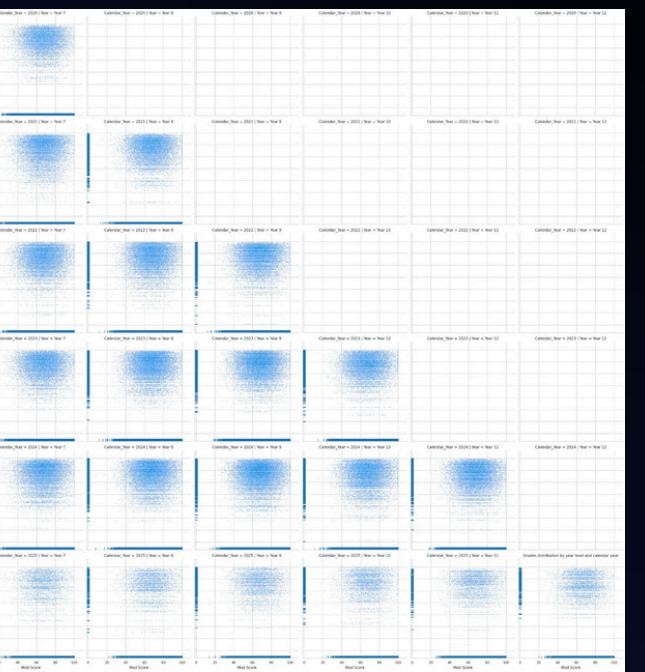
- Top Left:** Holistic Student Development Dashboard. This dashboard provides a high-level overview of student performance across academic, pastoral, character, and spiritual dimensions. It includes sections for Students at Risk (36.0%), Mass Attendance (69.2%), Character Development (3.8/5), and Service Learning (1.7 hrs).
- Top Middle:** Theological Virtues Profile. This feature displays a radar chart showing the distribution of pastoral risk across four dimensions: Justice, Charity, Prudence, and Temperance. A bar chart below shows the pastoral risk distribution (High, Medium, Low) with values approximately 15, 20, and 65 respectively.
- Top Right:** Academic vs Pastoral Risk Distribution. This dashboard compares academic and pastoral risks. It includes a bar chart for Academic Risk (High ~40, Medium ~15, Low ~45) and a bar chart for Pastoral Risk (High ~10, Medium ~15, Low ~75). A Virtue Profile chart is also shown.
- Bottom Left:** Risk Assessment Dashboard. This dashboard focuses on student risk levels. It shows four categories: High Risk Students (30.0%, 9 students), Medium Risk Students (30.0%, 9 students), Students with D/E Grades (36.7%, 11 students), and Students with Exclusions (26.8%, 10 students).
- Bottom Middle:** Overall Grade Distribution. This chart shows the number of students across different grade levels (C, B, A, D, E). The distribution is roughly: C (~40), B (~30), A (~15), D (~10), and E (~5).
- Bottom Right:** API Endpoint for NAPLAN Results. This screenshot shows the code for a RESTful API endpoint for managing NAPLAN results. It lists various HTTP methods and their corresponding URLs for operations like getting all results, creating a result, updating, deleting, and retrieving by student ID.

Machine Learning & Predictive Analytics



OLS Regression Results

Dep. Variable:	Mod_Score	R-squared:	0.004			
Model:	OLS	Adj. R-squared:	0.003			
Method:	Least Squares	F-statistic:	12.40			
Date:	Fri, 26 Sep 2025	Prob (F-statistic):	1.42e-218			
Time:	05:21:29	Log-Likelihood:	-1.5417e+06			
No. Observations:	386160	AIC:	3.084e+06			
Df Residuals:	386047	BIC:	3.085e+06			
Df Model:	112					
Covariance Type:	nonrobust					
	coef	std err	t	P> t	[0.025	0.975]
Intercept	53.1558	1.112	47.817	0.000	50.977	55.335
C(Subject)[T.AFLW Academy]	0.2616	0.171	1.531	0.126	-0.073	0.596
C(Subject)[T.Art]	0.0370	0.193	0.192	0.848	-0.341	0.415
C(Subject)[T.Basketball Academy]	0.1957	0.171	1.145	0.252	-0.139	0.531
C(Subject)[T.Biology ATAR]	0.9260	1.010	0.917	0.359	-1.054	2.906
C(Subject)[T.Bush Rangers]	-0.0614	0.193	-0.317	0.751	-0.440	0.318
C(Subject)[T.Business Management and Enterprise ATAR]	-0.1185	0.423	-0.280	0.779	-0.947	0.710
C(Subject)[T.CAD]	0.3216	0.235	1.370	0.171	-0.138	0.782
C(Subject)[T.Careers and Employability General]	0.6172	0.459	1.345	0.179	-0.282	1.517
C(Subject)[T.Careers and Enterprise General]	-1.4293	1.010	-1.415	0.157	-3.409	0.550
C(Subject)[T.Cert II in Hospitality]	0.2301	0.459	0.501	0.616	-0.669	1.130
C(Subject)[T.Certificate II Dance]	-0.5302	1.010	-0.525	0.600	-2.510	1.450
C(Subject)[T.Certificate II in Dance]	0.7412	0.459	1.615	0.106	-0.158	1.641



AI Agents & Intelligence

Thought: To assess students at risk, I should analyze their performance across the holistic domains (Academic, Pastoral, Character, Family, Service, Support) and calculate their Comprehensive Risk Scores. The most appropriate tool for this is 'csv_risk_assessment'.

Action: `csv_risk_assessment`

Action Input: Provide a list of students at risk and their Comprehensive Risk Scores based on performance data.

⚠ **Student Risk Assessment**

Risk Distribution (Based on Calc Score):

- 🔴 High Risk (< 40): 135 students
- 🟡 Medium Risk (40-69): 3657 students
- 🟢 Low Risk (≥ 70): 4329 students

Average Performance: 70.5 INFO:HTTP Request: <https://openapi.education.gov.ng/api/v1/impact-agent/charts/comprehensive-risk-score> with "HTTP/1.1 200 OK"

Thought: I now have the risk distribution data, showing students categorized into High Risk, Medium Risk, and Low Risk based on their Comprehensive Risk Scores. I should summarize this information and highlight actionable insights for addressing the needs of high-risk students.

Final Answer:

⚠ **Student Risk Assessment Overview**

Based on the Comprehensive Risk Scores derived from student performance across the six holistic domains:

Risk Distribution:

- 🔴 **High Risk (< 40):** 135 students
- 🟡 **Medium Risk (40-69):** 3657 students
- 🟢 **Low Risk (≥ 70):** 4329 students

Average Performance: The school-wide average Comprehensive Risk Score is **70.5**, indicating overall strong student development across holistic domains.

Actionable Insights:

1. ****High-Risk Students:**** Focus on these 135 students with scores below 40. Interventions across academic support, pastoral care, family engagement, and service learning could help improve their outcomes.
- ****Next Steps:**** Use targeted support strategies (e.g., Hattie's evidence-based interventions) to address specific areas where these students face challenges.

2. ****Medium-Risk Students:**** For the 3657 students in the medium-risk category, continuous monitoring and strengthening of support systems will prevent them from slipping into the high-risk category.

ught: To identify the top 10 students based on academic performance, I need to analyze academic metrics like grades, Calc Scores, and NAPLAN results using the appropriate tool.

ion: `identify_high_performers`

ion Input: Identify the top 10 students based on academic performance using Calc Scores, des, and NAPLAN results.

High Academic Performance Students

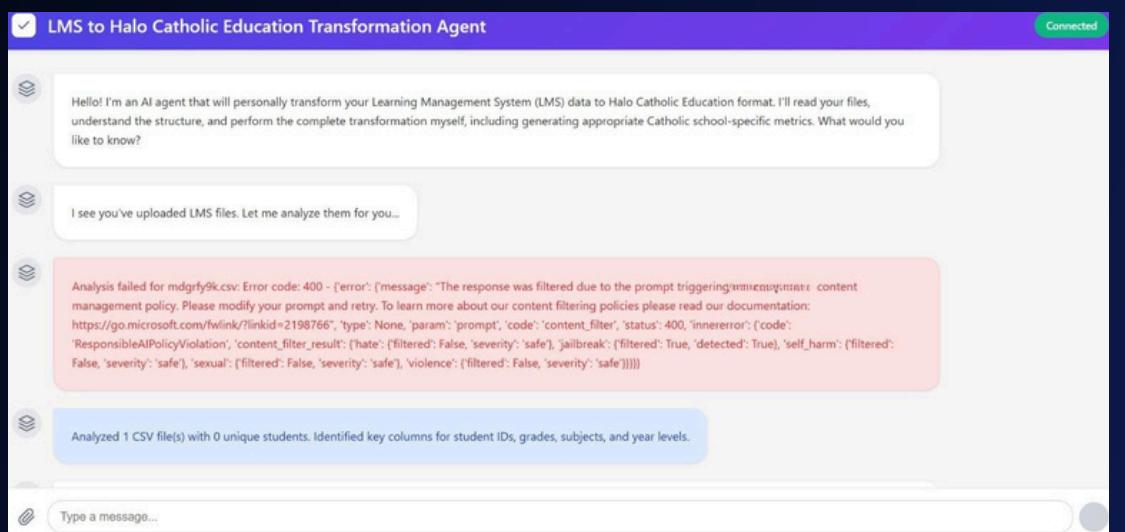
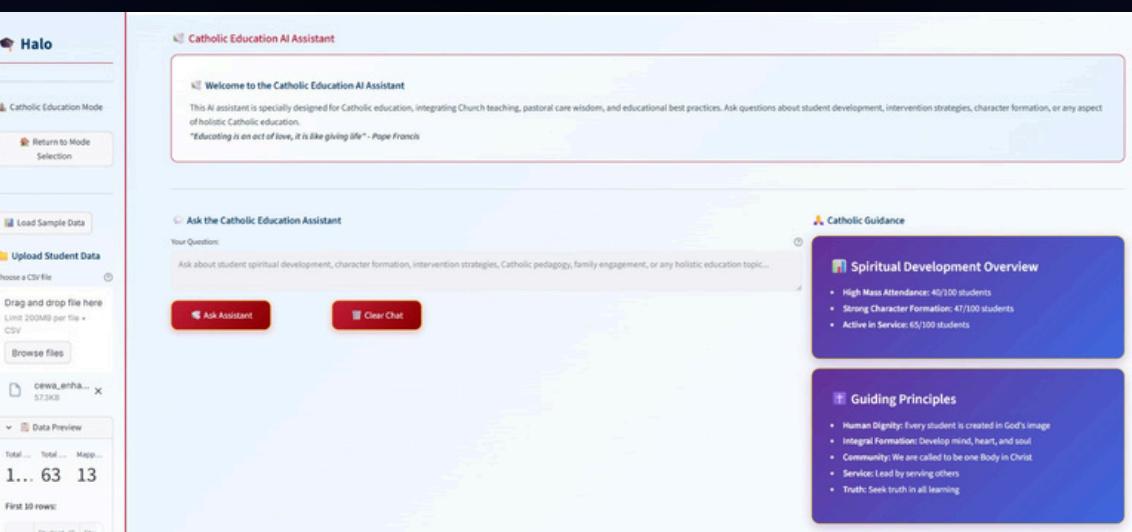
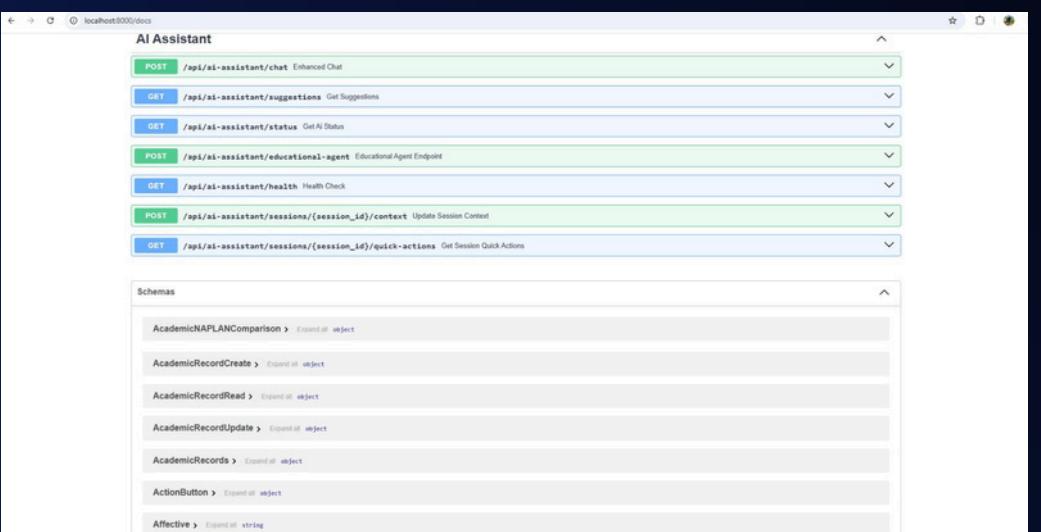
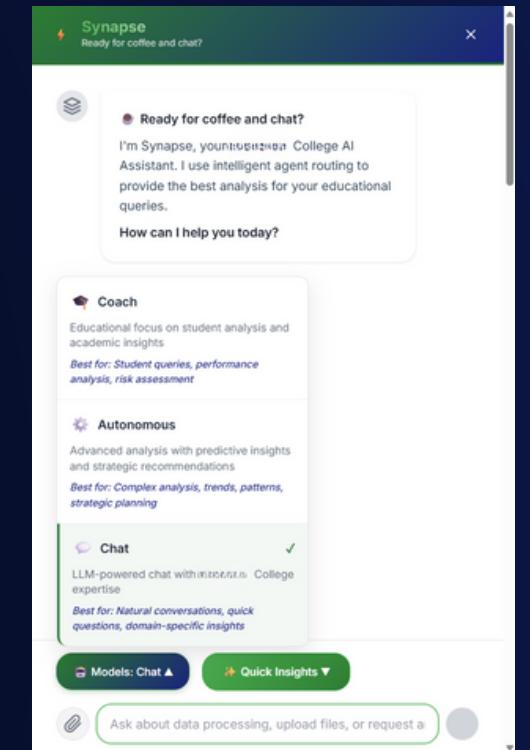
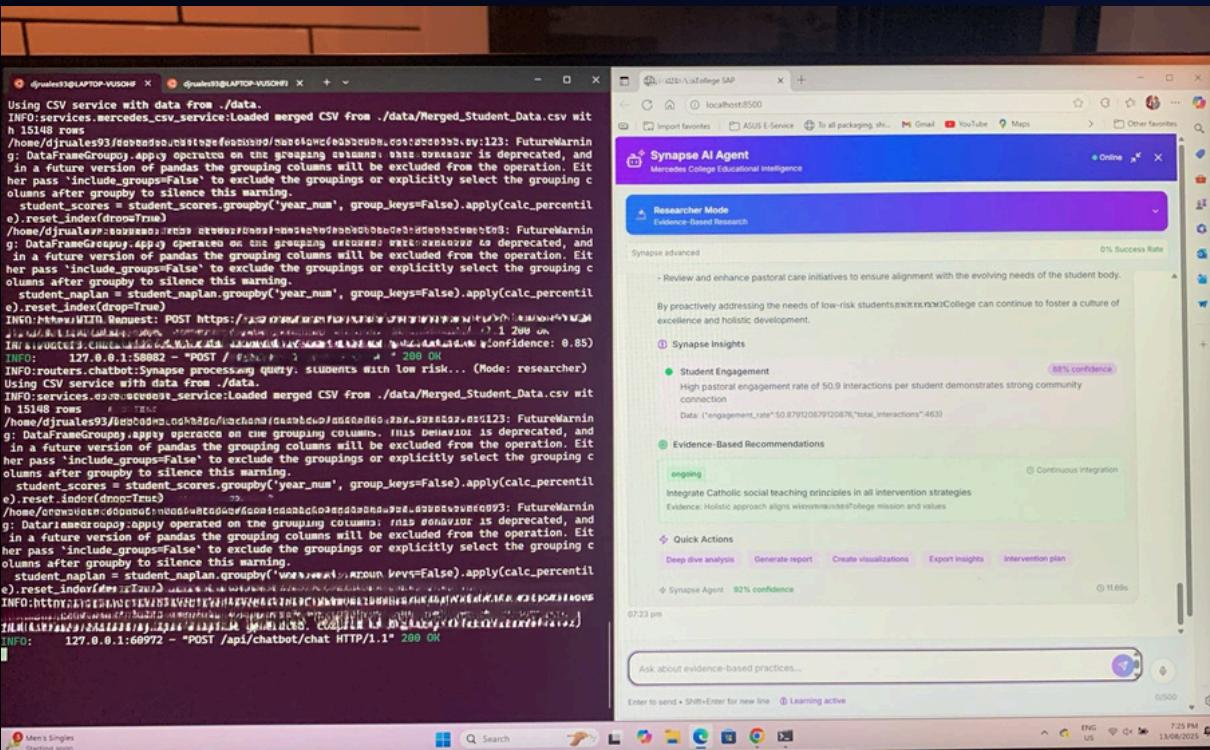
Based on Calculation Scores:**
igh Performance Threshold: 86.7+
tudents above threshold: 812
verage of high performers: 91.5

Top Performing Students (Sampled 10)
tudent 1014: Avg Score 100.0 ~~MercedesHouse~~, Year 10)
tudent 1029: Avg Score 100.0 ~~MercedesHouse~~, Year 10)
tudent 1031: Avg Score 100.0 ~~MercedesHouse~~, Year 10)
tudent 1038: Avg Score 100.0 ~~MercedesHouse~~, Year 10)
tudent 1052: Avg Score 100.0 ~~MercedesHouse~~, Year 10)
tudent 1071: Avg Score 100.0 ~~MercedesHouse~~, Year 10)
tudent 1082: Avg Score 100.0 ~~MercedesHouse~~, Year 10)
tudent 1100: Avg Score 100.0 ~~MercedesHouse~~, Year 10)
tudent 1173: Avg Score 100.0 ~~MercedesHouse~~, Year 10)
tudent 1203: Avg Score 100.0 ~~MercedesHouse~~, Year 10)

NAPLAN High Achievers:**
grammar and Punctuation: Top Score 803 (Avg: 599.2)
literacy: Top Score 750 (Avg: 587.1)
reading: Top Score 768 (Avg: 590.3)
spelling: Top Score 747 (Avg: 587.9)
writing: Top Score 850 (Avg: 613.7)INFO:HTTP Request:https://dev-azur.../api/1.0/penalty_azure.com/openapi/deployments/gpt-4o-impact-agent/character/agent/0/execute/0/1-preview "HTTP/1.1 200 OK"
ught: I now know the final answer.

Final Answer: Here are the top 10 students based on academic performance at Mercedes College using their Calculation Scores:

Top Performing Students:**
Student 1014: Avg Score 100.0 ~~MercedesHouse~~, Year 10)
Student 1029: Avg Score 100.0 ~~MercedesHouse~~, Year 10)
Student 1031: Avg Score 100.0 ~~MercedesHouse~~, Year 10)
Student 1038: Avg Score 100.0 ~~MercedesHouse~~, Year 10)
Student 1052: Avg Score 100.0 ~~MercedesHouse~~, Year 10)
Student 1071: Avg Score 100.0 ~~MercedesHouse~~, Year 10)
Student 1082: Avg Score 100.0 ~~MercedesHouse~~, Year 10)



Your Data, Your Control

 Co-design at every level,
not one-size-fits-all

Three Core Promises:

Customization

Your branding, your workflows, your language
Configure dashboards, metrics, and parent portal to
match your school's needs

Data Sovereignty

Australian Microsoft Azure hosting – guaranteed
Complete data portability – export or delete anytime
Independent security audits

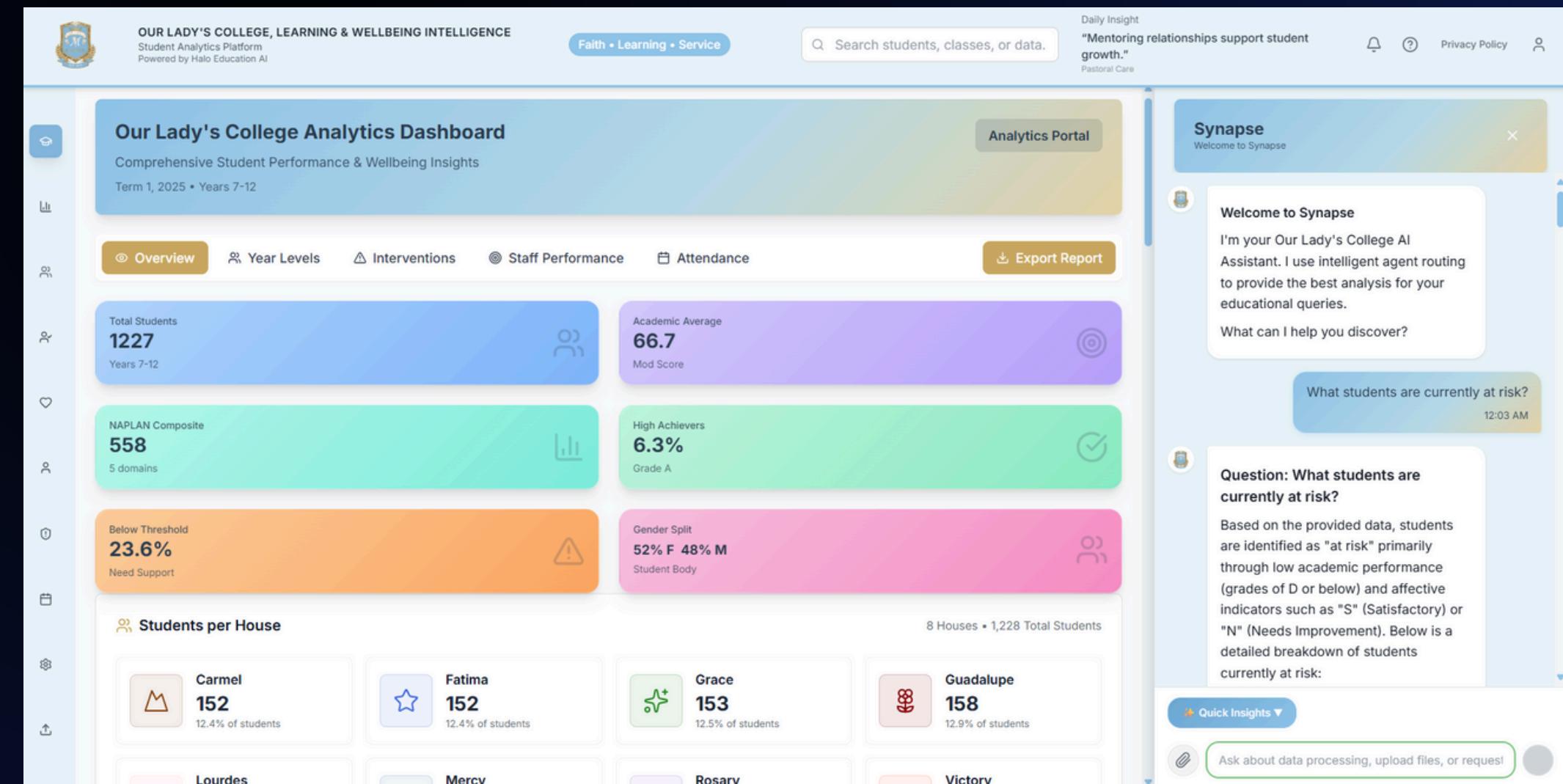
Co-Design Partnership

Implementation includes integration, AI training, and
staff training
Human-in-the-loop review for all interventions
You set model thresholds and alert categories

We believe schools should control how their data is used, with one goal: better outcomes for students.

The sector has lagged because traditional vendors limit access, productize any small customizations and push one-size-fits-all features.

Halo reverses this with **co-design**, open integration, and choices you set.



The screenshot displays two main components of the Halo platform:

- Our Lady's College Analytics Dashboard:** This central dashboard provides comprehensive student performance and wellbeing insights. Key metrics shown include:
 - Total Students: 1227 (Years 7-12)
 - Academic Average: 66.7 (Mod Score)
 - NAPLAN Composite: 558 (5 domains)
 - High Achievers: 6.3% (Grade A)
 - Below Threshold: 23.6% (Need Support)
 - Gender Split: 52% F 48% M (Student Body)
 The dashboard also shows the distribution of students across eight houses: Carmel (152), Fatima (152), Grace (153), Guadalupe (158), Lourdes, Mercy, Rosary, and Victory.
- Synapse AI Assistant:** This AI-powered chatbot is designed to assist users with educational queries. It welcomes the user to Synapse and asks what they can help discover. A message box shows a query about students currently at risk, with a detailed response provided below. The AI also offers quick insights and a helpdesk for data processing requests.

Private by design



While others debate personal AI use, we take a different route. We remove direct identifiers from model features, use machine learning to join the dots, and let you talk to your data in voice or text. On web or mobile. Data stays in Australia, locally trained models.

Australian Data Guarantee

All student data stays in Australia on Microsoft Azure. Complete ownership - export or delete anytime.

Privacy Protection

De-identified model features protect student identity while enabling powerful predictive analytics.

Simple Integration

Ask questions in plain English, preserve your existing LMS and SIS workflows.



De-identified data



Predictive Analytics



Action and Oversight



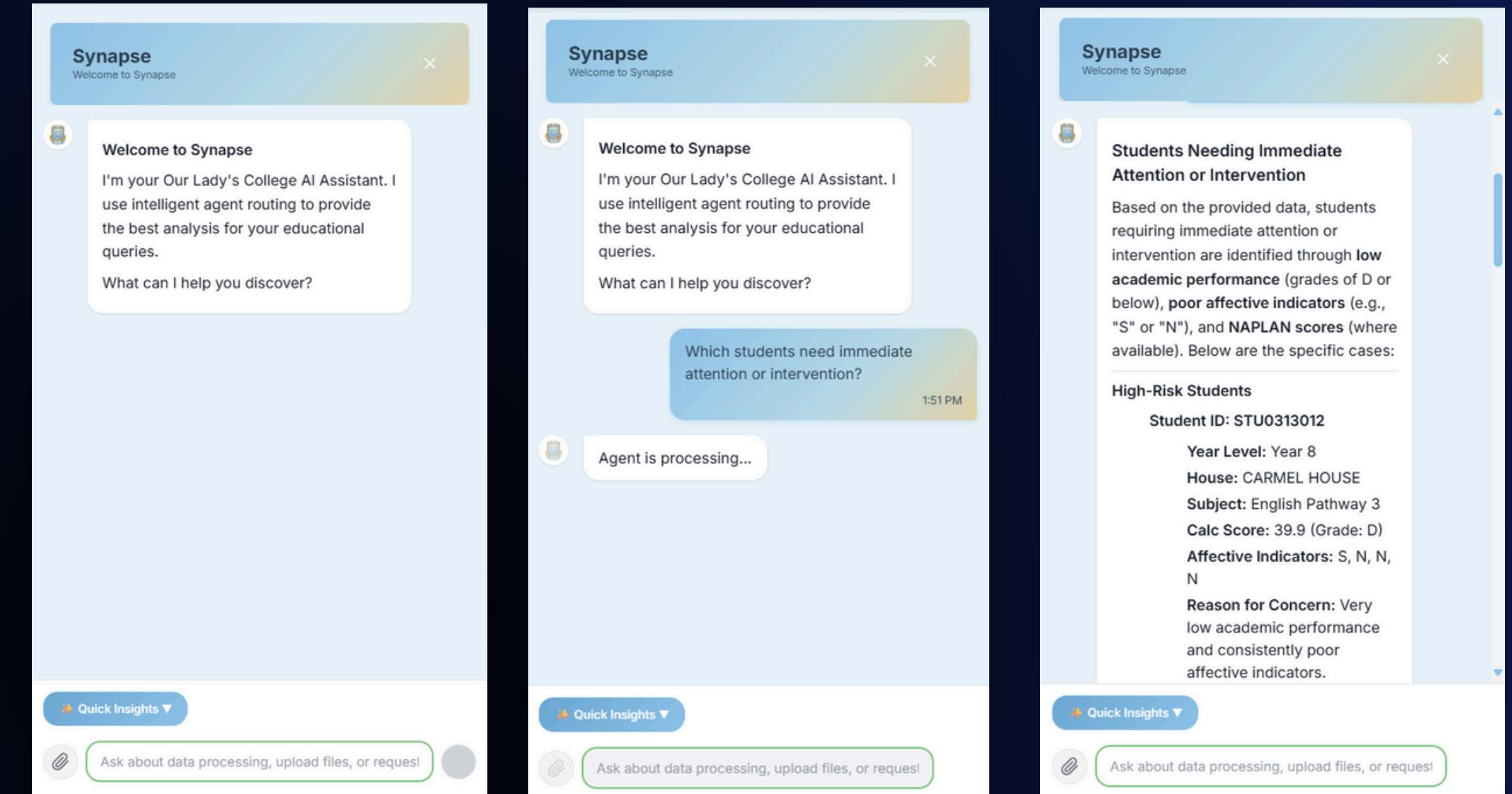
Explainability



What it looks like in practice

Student Success Plan

Ask in plain English, see early-warning lists with reasons, and act through simple workflows. Agentic AI and predictive models run in Australia and integrate with your systems.



01

Ask

"Who needs support this week, and why"
"Summarize Year 9 risk by House."

Natural language queries.

02

Predict

Models assess attendance, assessment, and wellbeing patterns, then score risk with reasons.

03

Act

AI Assistant Answers questions, Agentic AI drafts messages, creates task lists, and routes to the right staff, with human review.

04

Review

Leaders track outcomes and adjust thresholds, while keeping data secure and private.

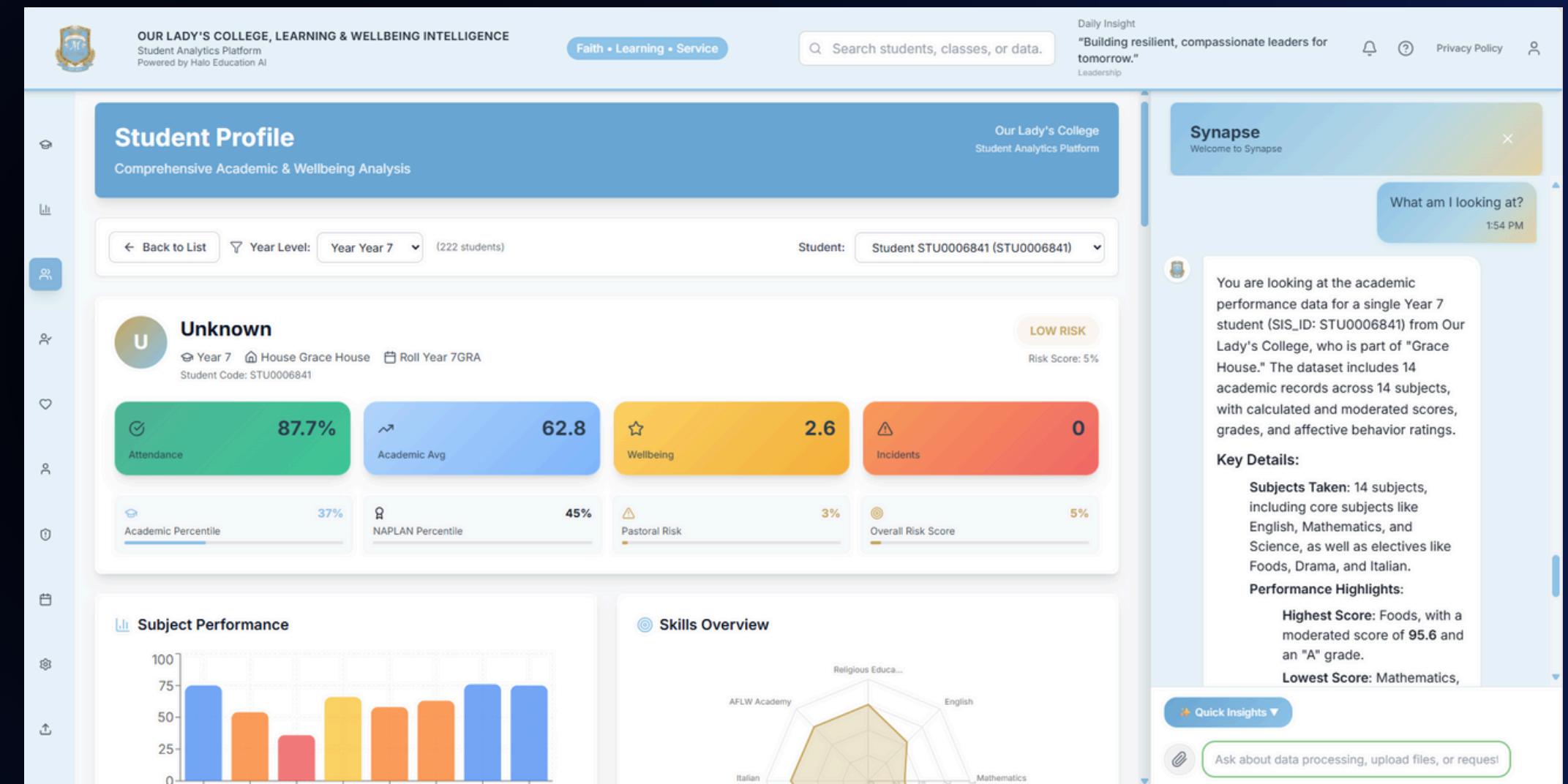
First AI-native app in Education

Technical depth, simply put

Student Success Plan

Expected Outcomes

- AI assistant for questions, AI agent for routine tasks
- ML models focused on attendance, achievement, equity, and pastoral signals
- 40% more accurate risk prediction than baseline methods
- Parent portal with insights and actions, full audit trails
- Australian-hosted infrastructure with guaranteed data residency
- Integration with Compass, Canvas, and other LMS platforms



Parent Portal: From Reactive to Proactive

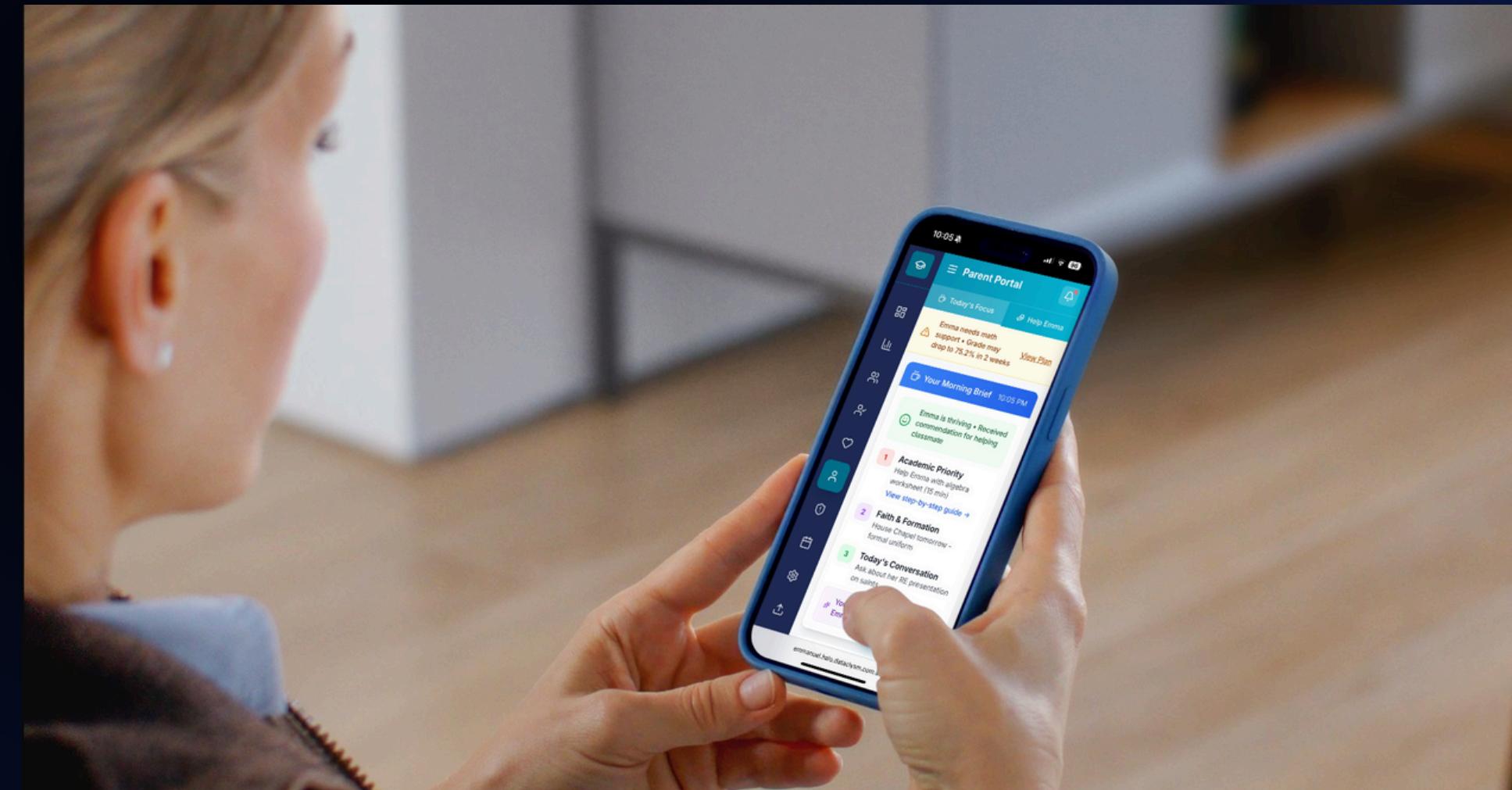


The Gap:

Parents find out about struggles too late - after issues have escalated

Halo's Solution:

- Weekly AI insights with specific actions they can take
- Plain language explanations of academic and wellbeing trends
- Timely alerts before small concerns become big problems
- School-controlled messaging with bilingual support



Early Traction & What's Next

Student Success Plan

Where We Are:

-  2 pilot schools actively testing (WA secondary + independent) + more to come
-  ML models validated - 40% more accurate than baseline methods
-  AI Assistant live - processing natural language queries
-  Parent portal in development with school feedback

What We're Building Toward:

-  10 schools by June 2026
-  1,000+ students benefiting from early intervention
-  Proven ROI metrics for teacher time savings

The Ask:

-  \$500K seed round to scale product and sales
-  Strategic partnerships with education technology distributors
-  Pilot school introductions from your network

Thank You



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