

Offline AI in K-12 Education

A Privacy-First Approach to Equitable Technology Access

Stone Arch Bridge Initiative for Education Resources

SABIER • |

THE PROBLEM

Commercial AI Platforms Create Three Critical Barriers

Cost Barrier

**\$15–\$50
per student
annually in
subscription fees**

Connectivity Barrier



**Requiring
Continuous internet
excludes some schools
and programs.,**

Security Risk



**Student data transferred
to third-party vendors
raises concerns under
FERPA and IDEA
provisions.**

Another PROBLEM

Commercial AI Platforms

Create HUGE Environmental Problems

AI Sopala solves this PROBLEM

Because the AI runs on a very small portable server uses regular AC power or even a battery.

AI Sopala

A Fully Offline, Open-Source AI System for K–12 Classrooms

Hardware

Raspberry Pi 5

LMS

MoodleBox

AI Model

Gemma 3:1B

Cost

Under \$200

Who Sopala AI Serves



Grade 4-8 Educators

**Core instructional staff
implementing AI-enhanced
lesson activities in everyday classrooms.**



Special Education IEPs



**Students under requiring secure,
private learning environments
with assistive AI.**

AI Sopala

Openly licensed professional development
for AI implementation in K–12 settings

01

Responsible
AI Principles

Evidence-based training module

02

Technical
Architecture

Evidence-based training module

03

FERPA &
Compliance

Evidence-based training module

04

Classroom
Integration

Evidence-based training module

AI Sopala

**Openly licensed professional development
for AI implementation in K–12 settings**

The current model uses a Gemma 3 1B LLM
which was released in March of 2025

Just this month the Gemma 4 model was released.
It still runs on a Raspberry Pi but can now do images, video and audio.

What are your Take Aways?

Digital Equity Starts Here.

Sopala AI puts powerful, private, FERPA-compliant AI in every classroom — regardless of zip code, budget, or bandwidth.

Presented by SABIER

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[Link to more resources](#)