



# MuggsOfLearning.net

AI-Integrated Education — Built by a Teacher, to Be Used and Molded by Teachers

You've met edTech that says it can teach.

**Have you met a teacher that says he can build edTech?**

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Data Science Teacher · Licensed Clinical Social Worker

<p><b>11</b></p> <p>YEARS CLASSROOM TEACHING</p>	<p><b>6</b></p> <p>YEARS CLINICAL SOCIAL WORK</p>	<p><b>4.4</b></p> <p>LEADS SCORE (EXEMPLARY)</p>
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## The Engine: Scientist AI

MuggsOfLearning is a Scientist AI program — AI acts as an analytic instrument, not an autonomous agent. AI observes, measures, and reports. The teacher interprets and acts. All AI-assisted feedback is inspected and tuned by the teacher before reaching the student.

- **Single Pass AI:** One prompt, no iteration. Efficient for student-facing workflows at classroom scale.
- **Gauntlet Prompting:** Saturate the context window with rubrics, exemplars, corrections, and full source documents.
- **Teacher-at-the-Helm Tuning:** AI proposes. Teacher corrects. Corrections become few-shot examples that reshape the system's judgment.
- **Exit Plan Design:** Every tool is built with a plan for the student to outgrow it. The goal is independent performance.

## Malleable by Design

EdTech sells finished platforms. This system improves as teachers use it. Teacher overrides become training data for prompt refinement. UX friction becomes interface changes. Summer corrections become fine-tuning data for model improvements.

See comparison table on reverse.

## What the Engine Powers

### MuggsOfMastery.net

The cross-content backbone. AI-powered constructed response and extended response evaluation across all LEAP content areas. Students practice the exact task types they see on LEAP with individualized feedback calibrated to LDOE rubrics and verified against source documents. US History CR/ER is live and in classroom use; ELA, Algebra, Geometry, and Biology are in active development. What's built in the data science classroom extends to every tested subject in the building.

### The Proving Ground: Social Data Science

A computer data science course satisfying Louisiana's 4th math credit. Students conduct original research through a five-phase arc: observe, ask questions, gather data, analyze, and communicate. Every tool in the ecosystem was built and tested in this classroom.

- MuggsOfSurveys.net** Survey item evaluation pipeline
- MuggsOfWriting.net** AI-free composition space
- MuggsOfAnalysis.net** Data visualization & synthesis
- MuggsOfDataSci.net** Curriculum delivery platform

## Infrastructure

Two-tier local AI: RTX 4090 + 5070 Ti teacher rig, offline student workstations. Zero third-party cloud. Cloudflare edge stack. Rebuild at a new school in days.

## Designed for Grow. Achieve. Thrive.

Louisiana's revised accountability system (2025–26)

### Grow — 42% Academic Growth

8th grade LEAP scores set the baseline. Schools earn points when students move up achievement levels.

MuggsOfMastery delivers individualized constructed-response feedback on every assignment, calibrated to LEAP rubrics. Targeted guidance on what to improve to reach the next achievement level.

### Achieve — 33% Proficiency

Percentage of students scoring Mastery or above on LEAP assessments.

At the crossroads of humanities and STEM, MuggsOfDataSci is uniquely positioned to develop tools easily adapted to helping students attain mastery in all LEAP-assessed content areas.

### Thrive — 25% Post-Graduation Readiness

College credit, career credentials, and workforce readiness indicators.

CLEP Introductory Sociology pathway — college credit before graduation. High-leverage, low-cost acceleration most LA high schools aren't yet using at scale.

**Why this isn't a product.** MuggsOfLearning is built on a decentralized model of AI in education — the tools, the infrastructure, and the expertise live with the teacher, not a vendor. Schools hire teachers first and keep them because they are good. The edTech Sean builds is built because it is what he and his students need. If he moves on, the system stays to grow. The school keeps the tools, the prompts, the infrastructure, and the trained judgment to run them.

# Malleable by Design

## How MuggsOfLearning differs from commercial AI edTech

Commercial edTech treats teacher feedback as a feature request. In MuggsOfLearning, teacher corrections are training data — every override reshapes the system’s judgment. All feedback is inspected and tuned by the teacher before reaching the student. **That’s not customization. That’s co-evolution.**

	MuggsOfLearning	Khanmigo	MagicSchool AI	Turnitin
<b>AI architecture</b>	Single Pass — one dense prompt, one evaluation, stateless	Persistent chatbot — Socratic dialogue across sessions	Iterative chatbot — studio mode with stored state	Forensic analysis — permanent ingestion into index
<b>Memory model</b>	Stateless — nothing persists after the evaluation pass	Persistent — tracks student profile across sessions	Contextual — stored rubrics, output history, knowledge hub	Archival — every submission permanently indexed
<b>Data sovereignty</b>	Teacher-owned, local inference — student data never leaves the building	Corporate-managed cloud infrastructure	Corporate-managed cloud infrastructure	Corporate-managed cloud infrastructure
<b>Connectivity</b>	Offline-first — local AI on commodity hardware, edge deploy	Cloud-only — requires constant server connection	Cloud-only — web app + Chrome extension online	Cloud-only — institutional SaaS
<b>Teacher override → system improvement</b>	Yes — corrections become few-shot examples	No	No	No
<b>UX friction → platform changes</b>	Teacher identifies bottleneck, Muggs fixes it	Teacher reports it, company prioritizes in backlog	Teacher reports it, company prioritizes in backlog	Teacher reports it, company prioritizes in backlog
<b>Source documents in context window*</b>	Full documents loaded every pass — designed to identify fabricated sources	Unknown / unlikely at scale	No	No
<b>State accountability alignment</b>	Built for Louisiana GAT: Grow, Achieve, Thrive	Generic — not state-specific	Generic — not state-specific	Generic — not state-specific
<b>Cost</b>	A teaching job and planning time	\$44/year (family) or free via district partnership	Free tier / \$100/yr Plus / ~\$3-4/student enterprise	Institutional licensing (varies)

**\*Source Documents in Context Window**

When a platform evaluates student writing without source documents in the context window, it can only assess whether the writing sounds competent. It cannot verify whether cited sources are real. A student can fabricate a source entirely and receive full marks. MuggsOfMastery loads full source documents into every inference pass. The system is designed to flag fabricated sources.

**Hardware Agnostic, Offline-Ready**

The inference stack runs on LM Studio with open-source models on local hardware (RTX 4090 + 5070 Ti + student workstations). No server farm, no cloud dependencies. Sized for a school of up to 400 students. A school’s investment in workstations is a capital asset that persists far longer than a software subscription — and appreciates in capability as open-source models improve.



muggsoflearning.net