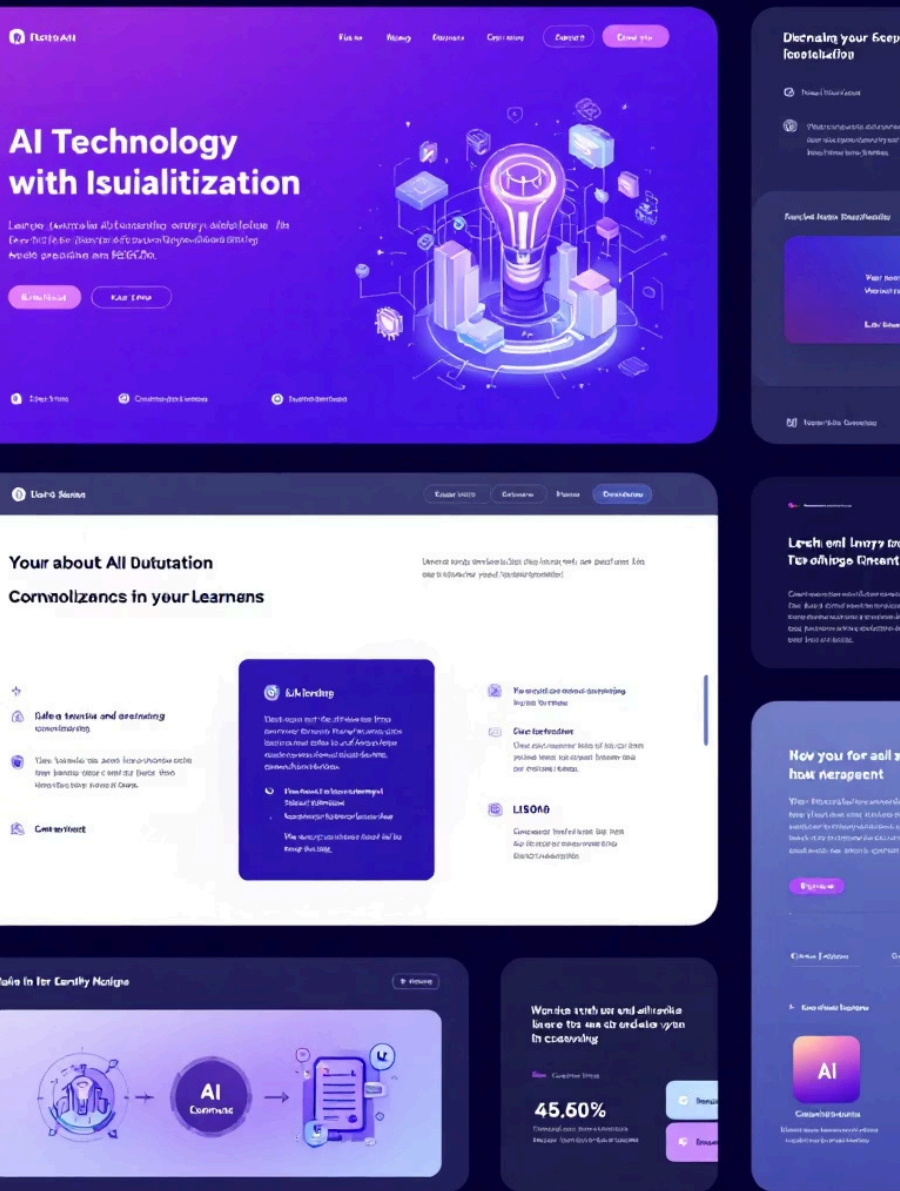




AI Skill Evaluator for Udemy

Personalized Skill Diagnosis + Course Recommendation Engine

Presented by Akshaya V

The Problem: Learners Are Lost in the Library

Content Overload

With thousands of courses available, learners struggle to identify which one matches their actual skill level and learning objectives.

Filter Frustration

Users spend valuable time applying multiple filters by rating, duration, and topic—yet still doubt whether the course truly fits their knowledge and goals.

Generic Results

Search algorithms return generic matches that don't understand learner intent, whether they're pursuing career advancement, hobby exploration, or deep mastery.



The Core Insight

Learners don't just need to find courses—they need to understand themselves first: their knowledge gaps, learning goals, preferred pace, and ideal starting point.

01

Identify True Knowledge Level

Beyond self-assessment to objective skill diagnosis

02

Clarify Learning Goals

Career change, hobby pursuit, or mastery building

03

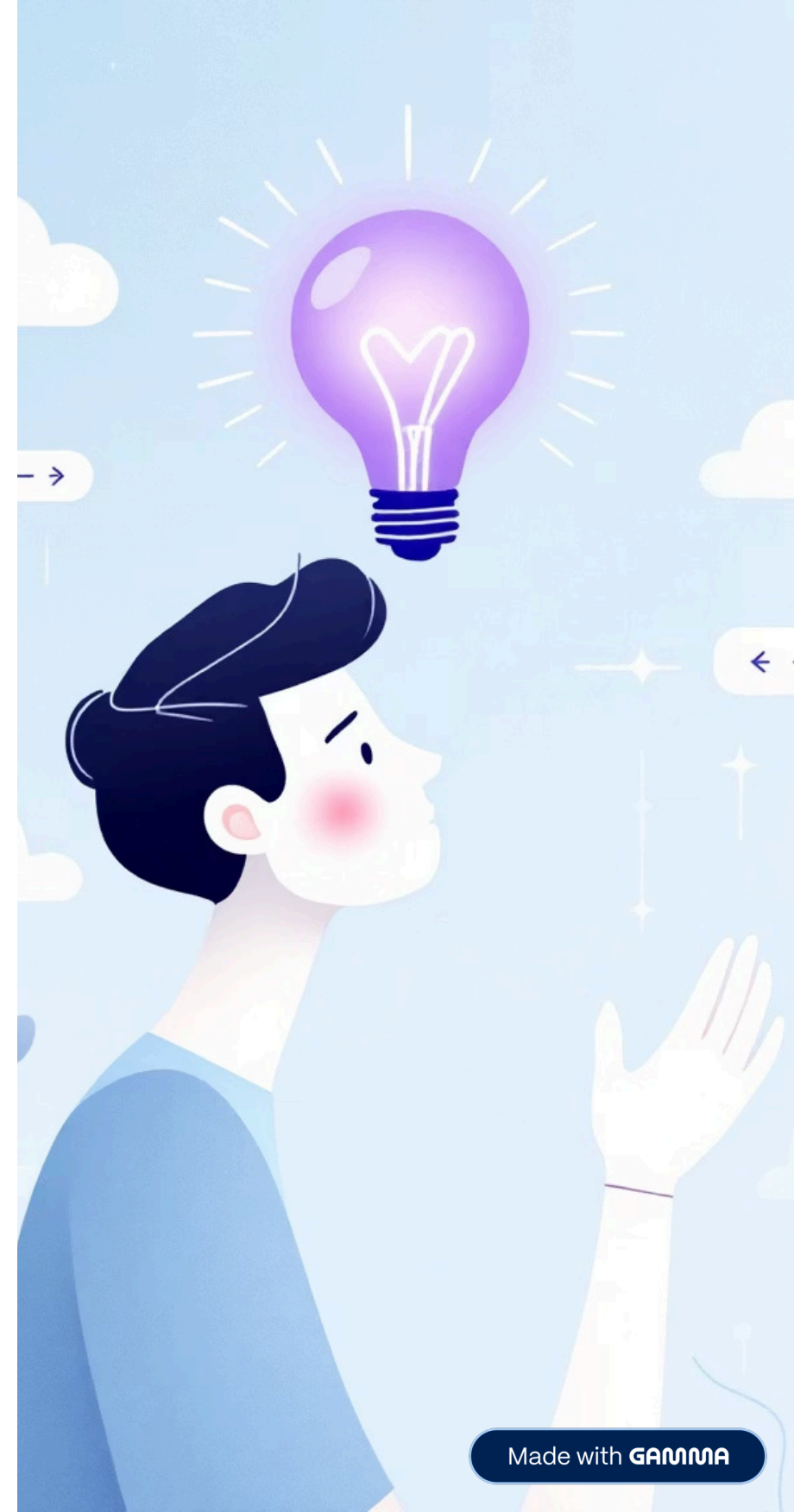
Match Learning Preferences

Pace, style, and time commitment alignment

04

Recommend the Right Start

Precise course or learning path suggestion



Solution: AI Skill Evaluator



Diagnostic Conversations

The AI asks domain-agnostic questions that quickly assess the learner's experience, confidence, and objectives in a natural, conversational flow.



Intelligent Analysis

Evaluates responses to determine true skill level, learning goals, time availability, and preferred learning style—not just surface-level preferences.



Personalized Recommendations

Generates customized course suggestions with clear justification: "This course fits you because..." Recommends single courses or 2-3 course learning paths.

Context-Aware AI Placement

The AI adapts its approach based on where learners encounter it, asking different questions and providing tailored guidance for each context.

1

Homepage Discovery

Broad exploration mode: "What skill area interests you most?" and "What's your experience with technology?"

Helps learners discover new domains and identifies their general proficiency level for broad recommendations.

2

Search Results Guidance

Topic-aware mode: "What do you want to achieve with Python?" and "Have you coded before?"

Understands the search context and asks targeted questions to surface the single best-match course from results.

How the AI Works

Context Detection

Targeted Questioning

Asks 1-2 sharp diagnostic questions tailored to context, avoiding survey fatigue

Profile Building

Analyzes experience level, goals, time availability, and learning style preferences

Smart Matching

Generates personalized justification explaining why specific courses fit, avoiding irrelevant cross-domain suggestions



Sample Diagnostic Questions

Domain-agnostic questions designed to quickly surface the critical information needed for accurate recommendations.

Understanding Intent & Experience

- **Goal-oriented:** "What do you want to achieve with this skill?"
- **Experience-based:** "Have you worked with similar topics before?"
- **Confidence check:** "Rate your comfort level with these concepts."
- **Past exposure:** "What have you already tried learning in this area?"

Matching Learning Style

- **Learning preference:** "Do you prefer hands-on projects or theory first?"
- **Time commitment:** "How much time can you dedicate per week?"
- **Knowledge clarity:** "Can you explain [concept] in your own words?"
- **Pace preference:** "Do you prefer intensive deep-dives or steady progress?"

Measuring Success

30%

Enrollment Conversion

Target increase in course enrollment from personalized recommendations

25%

Completion Rate

Expected improvement in course completion due to better skill-level matching

40%

Time Saved

Reduction in time spent searching and evaluating course options

50%

Dropout Reduction

Decrease in search-to-enrollment abandonment through confidence building

Additional metrics include improved relevancy scores for course selection and increased user satisfaction with initial course choices.



The Udemy Advantage

Why This Changes Everything

The AI Skill Evaluator transforms Udemy from a course marketplace into an **intelligent learning partner**. Instead of overwhelming choice, learners receive clarity, confidence, and a personalized starting point.

Unlike traditional filters that sort content, our AI *understands learners*—their goals, abilities, and preferences—delivering intent-aware, skill-level-aware recommendations that reduce overwhelm and accelerate learning.

Future Enhancements

- Interactive mini skill quizzes for deeper assessment
- Learning gap analysis with prerequisite mapping
- Automatic curriculum pathing across multiple courses
- AI tutor integration for ongoing support