

SkillMeter.AI

Solution Outline

1. Overview of the Proposed Solution

The proposed solution is an **AI-powered personalized learning platform** that transforms unstructured free online educational content into a structured, goal-oriented, and assessment-driven learning experience. The system leverages Artificial Intelligence to understand learner profiles, generate customized learning roadmaps, enforce daily study routines, and evaluate learning outcomes through content-based assessments.

2. Key Components of the Solution

2.1 Learner Profiling

- Collects user details such as skill level, prior experience, learning goals, and available study time.
 - Uses AI to interpret learner input and personalize the learning journey.
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2.2 AI-Based Content Discovery

- Identifies high-quality free learning resources such as YouTube tutorials and reference materials.
 - Filters content based on relevance, difficulty level, and learning objectives.
 - Reduces information overload by selecting only suitable content.
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2.3 Personalized Roadmap Generation

- Automatically converts selected resources into a structured learning roadmap.
 - Organizes topics into chapters and concepts with logical sequencing.
 - Adjusts learning depth based on the learner's proficiency level.
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2.4 Daily Learning Routine & Task Scheduling

- Generates a day-wise study plan once a course is started.
 - Assigns clear daily tasks to maintain learning consistency.
 - Tracks task completion and learning streaks.
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2.5 AI-Generated Notes and Summaries

- Generates concise, concept-wise notes from learning content.
 - Highlights key takeaways and important concepts.
 - Enables quick revision and improved retention.
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2.6 AI-Based Assessment and Evaluation

- Generates concept-specific assessments using learning content.
 - Automatically evaluates learner responses.
 - Provides instant feedback and performance scores.
 - Ensures learning is outcome-oriented rather than passive.
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2.7 Progress Tracking and Analytics

- Tracks learning progress, assessment scores, and completion rates.
 - Visualizes performance through dashboards and charts.
 - Identifies weak areas and recommends improvement.
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2.8 Notification and Engagement System

- Sends daily reminders and alerts via email and SMS.
 - Notifies users of missed tasks and achievements.
 - Encourages consistent learning behavior.
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3. Workflow of the Solution

1. User signs up and completes onboarding
 2. Learner profile is analyzed using AI
 3. Relevant learning resources are discovered
 4. A personalized learning roadmap is generated
 5. User starts the course and receives daily tasks
 6. User studies content and completes assessments
 7. AI evaluates performance and updates dashboard
 8. Notifications reinforce learning discipline
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4. Benefits of the Proposed Solution

- Provides structured learning paths from free content
 - Adapts learning to individual needs
 - Measures actual understanding through assessments
 - Improves learning consistency and motivation
 - Offers data-driven insights into learner progress
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5. Conclusion

The proposed solution effectively addresses the limitations of unstructured self-learning by integrating AI-driven personalization, assessment, and analytics. It ensures that learners not only consume content but also understand, retain, and apply knowledge in a disciplined and measurable manner.

One-Line Solution Summary

An AI-driven system that converts free online educational content into a personalized, assessed, and trackable learning experience.