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Riff, a reflection assistant powered by generative AI (riffbot.ai)

Riffbot.ai is a web-based platform that leverages AI-powered, customizable chatbots to generate dynamic, personalized self-reflection experiences for learners while providing real-time insights to enhance engagement and improve learning outcomes at scale.

Personalized learning and meaningful self-reflection are essential for educational and professional growth, yet difficult to achieve at scale. Traditional tools like discussion boards and static prompts often yield superficial responses and analyzing them at scale is time-consuming and inefficient. This results in lost opportunities for learner growth, engagement, and instructional improvement.

To address this challenge, Stanford researchers have developed a reflection assistant powered by artificial intelligence (Riffbot.ai) that engages learners in educator-directed self-reflection to support learning objectives. Riffbot.ai offers a web-based platform that uses AI to create dynamic, customizable reflection chatbots. These AI-powered bots guide learners through individualized reflection journeys by generating context-aware follow-up questions based on user input. Facilitators can embed these bots directly into websites, learning management systems, or virtual events to provide scalable, meaningful self-reflection. The platform supports deep learner introspection before group discussions and gives educators real-time insights into learner progress and needs.

Stage of Development:
Prototype. Riffbot.ai is currently in its beta phase. A functional prototype of the platform has been developed and is being tested with a limited group of users.

Applications

- K–12 & Higher Education

- Corporate Training
- Coaching & Mentorship
- Learning Platforms

Advantages

- Engaging for Learners
- Personalized support and real-time access to reflections
- Easily embedded into existing platform
- Web-based with strong privacy controls and flexible identity tracking

Publications

- Britos Cavagnaro, Leticia. 2023. Experiments In Reflection: How to See the Present, Reconsider the Past, and Shape the Future. Ten Speed Press (Penguin Random House).

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