**Proposal for an Adaptive Learning Enhancement Tool (ALET) for LIGN 101**

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**Project Title:** Adaptive Learning Enhancement Tool (ALET) for Linguistics Education

**Project Description:**

The Adaptive Learning Enhancement Tool (ALET) is designed to transform LIGN 101 into an adaptive learning environment, leveraging the GPT-4 AI to offer customized question difficulty and feedback. This platform will support the mastery of linguistics through real-time adaptation and self-assessment opportunities.

**Core Objectives:**

Personalized Difficulty Adjustment: Flexible algorithms to modify question complexity in response to student performance data. The program will give students questions based on their abilities. If the student is doing well, they will see more difficult questions, otherwise they will see easier questions.

Concept Reinforcement Pop-ups: Deploy interactive modules that prompt learners to recapitulate key linguistic concepts.The program will also consist of a part that will automatically pop out concepts that users can self-check if they understand or not.

Immediate and Constructive Feedback: Use GPT-4’s advanced analysis to provide personalized corrections and explanations, fortifying concept comprehension.

Comprehensive Subject Coverage: Ensure the tool’s content is fully aligned with the LIGN 101 curriculum for maximum educational impact.

Students can verify their understanding by writing down the answers (or they may choose to not write them down). The program will evaluate their response and provide feedback when necessary.

**Core Technology:**

- GPT-4, accessed via API, for intelligent response generation.

- Adaptive learning algorithms for real-time question difficulty scaling.

- A feedback mechanism utilizing GPT-4’s linguistic analysis to offer tailored student guidance.

**Targeted Utility:**

ALET is built to facilitate self-guided learning in linguistics, empowering students to navigate the curriculum at a personalized pace.