

Title	Exam Bot Assistant: AI-Powered Study Companion
Problem ID	HK2612
Team Name	Sleep Deprived
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Domains Used	Artificial Intelligence, EdTech

### **Abstract**

*Today, students Face the Disconcerting Incongruence of Having Access to Countless Resource Materials like PDFs, Notes, Textbooks, etc., Yet Feeling Overwhelmed Without Clearer Indicators of Where to Start with Their Preparation. The Problem Is No Longer the Lack of Materials to Prepare With, But the Ability to Determine the Key Areas to Focus on, the Gaps in One's Own Learning Process, as Well as Get Effective Feedback on One's Progress.*

*This solution introduces the StudyPilot, an AI-based study partner that can reshape the world of student exam prep. Natural language processing is used on the student data that students enter study material with, resulting in words that are crucial being located, or rather, extracted while the entire connection is mapped out.*

*The strength of this system lies in providing a personalized experience to every student using this resource. Its ability to automatically generate study content in a quiz format and differentiate the complexity of these questions based on student performance can be an added advantage.*

*Furthermore, different levels of achievement provided by this resource encourage every student to study using this tool by awarding "points," "badges," and "achievement levels."*

*Unlike traditional platforms that simply present content, the Exam Bot Assistant provides an interactive learning experience with clear guidance and continuous feedback. Visual dashboards show concept mastery levels and progress trends, helping students understand exactly where they stand. This intelligent approach enables students to study efficiently, focus on what truly matters, and approach exams with genuine confidence rather than anxiety.*