

# **DIGIEDUHACK SOLUTION CANVA**

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### DESCRIBE IT IN A TWEET.

Activa360 gives you back the power to think, analyze, and reflect. It turns learning into a game: the more you think, the more you grow. AI is no longer the enemy, it's your ally. #ThinkBeyondAI

Solution Title:	Activa360	Team Name:	COGNITIVOS
Challenge Addressed:	Protect yor mind and Digital World: Self-Care and Safety Online	Challenge Category:	Well - being in digital education
About the Team	Higher Education Students Teachers Others	Researchers	Professionals

### **DESCRIPTION OF THE SOLUTION**

Activa360 is an educational application that transforms the current use of artificial intelligence into an active and reflective learning process. The solution addresses a real problem: many university students use AI passively, obtaining answers without understanding them, which weakens their critical thinking and reduces their intellectual autonomy. We propose to reeducate the use of AI by turning it into a cognitive mediator capable of expanding students' analytical, reflective, and selfregulated learning skills. Activa360 does not replace thinking , it trains it.

The application integrates a pedagogical AI based on the Socratic method and spaced repetition, capable of guiding students through reflective questioning, reasoned feedback, and adaptive exercises that adjust to each user's cognitive style. Instead of providing direct answers, the AI accompanies the student's mental process, helping them build meaning, justify ideas, identify mistakes, and understand topics at a deeper level. This personalized experience is complemented by a cognitive gamification system that rewards skills such as argumentation, analysis, and autonomy, reinforcing motivation through badges, visible progress, and challenges designed to strengthen critical thinking in an engaging and sustained way. It also includes an emotional personalization feature that sends motivational messages and tracks the student's reflective process, promoting healthy study habits and self-confidence.

The technology used is based on conversational models such as GPT, integrated with adaptive learning mechanisms, a secure educational server, and a user experience (UX) design that enables continuous interaction. The goal is for students to learn how to think better, not depend on quick answers.

To ensure its operation, the implementation plan includes three stages: an initial design phase with interaction testing; a pilot phase with university students to measure real cognitive impact; and finally, an institutional integration phase with UPC's academic platform, offering free access to the entire educational community under a scalable freemium model.

This solution enhances digital education by promoting active, ethical, and self-regulated learning, where AI is no longer a shortcut but a formative companion capable of strengthening comprehension, analysis, and problem-solving abilities. Its success can be measured through indicators such as improvement in academic performance, reduction in dependency-based queries, increase in autonomous reasoning, consistency of app usage, and student satisfaction with their learning process. Activa360 proposes a new relationship between students and technology: learning with AI, not from AI. It is a sustainable, adaptable educational solution designed to transform the way young people think, study, and engage with knowledge in the digital age.

The rise of artificial intelligence has transformed the way students learn. Although it has brought great progress in access to information and ease of completing academic tasks, many students reflection, creativity, and intellectual automations, and should undependent control of the state of the state

Our project aligns directly with the theme "Protect your mind and digital world's Self-Care and Safety Online." We focus on the current need for digital education, proper learning with the Activa 260 aims to teach UPC university students to use artificial intelligence as a tool to think better, learn autonomously, and study academic topics in the clearest and most conscious way Activa 260 aims to teach UPC university students to use artificial intelligence as a tool to think better, learn autonomously, and study academic topics in the clearest and most conscious way Activa 260 directly addresses the challenge posed by the UPC hackathon, which seeks digital solutions that reduce passive dependence on AI and promote higher cognitive skills among students. Our proposal turns AI into an active pedagogical agent, it guides, questions, By integrating the Socratic method, gamification, and adaptive learning, the app develops exactly the competencies required by the challenge. Critical thinking, reflection, intellectual strengthens it, fulfilling the core objective of the organizing institution challenge.

Bibliographic Reference: Vasquez Cruceta 1. (2025). La inteligencia artificial como mediadora cognitiva y formativa en el aprendizaje autónomo universitario: una teoría fundamentada. rom <u>https://revistasaga.org/index.php/saga/article/vev/213</u>

Our target audience is undergraduate students at the Peruvian University of Applied Sciences (UPC), aged 18 to 26, who frequently use artificial intelligence to study, complete assignments, or solve academic tasks. This group benefits directly by developing critical thinking, cognitive autonomy, and greater intellectual confidence. The application transforms AI into a pedagogical guide, helping students reason for themselves instead of depending on automatic responses

To validate this approach, we conducted surveys with 10 UPC students, of whom 9 out of 10 admitted to using artificial intelligence for their academic activities. During this process, we created the profile of our ideal user: Camila Torres, an 18-year-old first-year International Business student. She represents users who feel insecure when responding without relying on AI and wish to regain the ability to generate their own ideas.

Activa360 addresses these needs through personalized learning: it adapts challenges, questions, and modules according to each student's motivations, learning style, and emotional context, including factors such as cognitive insecurity, the need for recognition, and the desire for visible progress.

Activa360 transforms the role of artificial intelligence in universities: from a shortcut tool to a cognitive trainer. By applying a Socratic pedagogical flow, the app compels students to generate their own reasoning before receiving feedback. This change in dynamics turns passive activities (copying an answer) into active processes of knowledge construction, improving deep understanding, argumentation skills, and the transfer of knowledge to new problems.

The application is designed under principles of inclusion and accessibility, adapting to different learning paces, cognitive styles, and emotional needs. In this way, it promotes equitable learning for all students. In the short term, this results in better performance on assessments that measure analysis and synthesis; in the medium term, it leads to greater autonomy in facing complex tasks without external dependence.

Activa360 supports students from diverse contexts through an accessible and inclusive freemium model. Although its main focus is cognitive, Activa360 also provides indirect environmental benefits: it reduces the need for printed materials by centralizing digital resources, minimizes travel to in-person tutoring by offering constant support, and optimizes the use of educational infrastructure. Through responsible design (cache optimization, efficient API calls, and energy-efficient servers), the app minimizes its environmental

It is important to note the water consumption required due to the app's need for fast and clear response This demand increases server heat, requiring a certain amount of water per response to cool down the API

Furthermore, the proposal aligns with Sustainable Development Goal (SDG) No. 4 - Quality Education, by promoting inclusive, equitable, and quality education, Activa360 adds value to institutions, teachers, and students by encouraging an ethical, conscious, and formative use of technology, strengthening meaningful learning and digital responsibility.

### INNOVATION

## **TRANSFERABILITY**

Activa360 was designed with a flexible pedagogical core that allows its adaptation to multiple educational contexts beyond university. Although the current prototype is optimized for UPC students, its modular structure based on Socratic AI

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skits common in ammong and early state of the common and the commo adaptation to any institution seeking to strengthen active learning through artificial intelligence.

### SUSTAINABILITY

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### **TEAMWORK**

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  \*\*Gabriela Gudalupe Grosmann Hernández Systems Engineering\*\*
  Röle: Functional design, technological integration, and operational performance of the application.

  Experience: System implementation and architecture with Al Integration; development of functional prototypes and integration testing (APIs, file).
- Experience: System implementation and architecture with Al Integration; development of horizona processors; as we implementation and architecture with All Integration; development of horizona processors.

  All team members also have experience in interdisciplinary academic projects and demonstrate string commitment, molivation, and dedication to the initiative. All team members are also the properties of the properties of the properties of the initiative. We are an interdisciplinary team where each immediate ordinary that is sufficient and provide interface deeps (trapplic Cestify), flancical visability and commercialization (fluoranses Administration and International Business), and the technical capacity to are suggisted and set label the propriety of System (replementary allife; statella, are needed to that Architact floren concept a validation and statella and architecture and an architecture and architecture architecture and architecture architecture architecture and architecture architecture and architecture ar

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