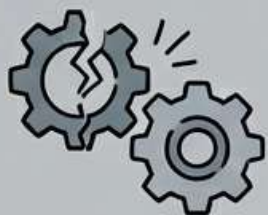


Smart leveling: an AI-driven adaptive learning strategy in higher education.

Aldape-Valdes, P., Rincon-Flores, E. G., Castano, L., & Guerrero, S. – RIED-29(1).

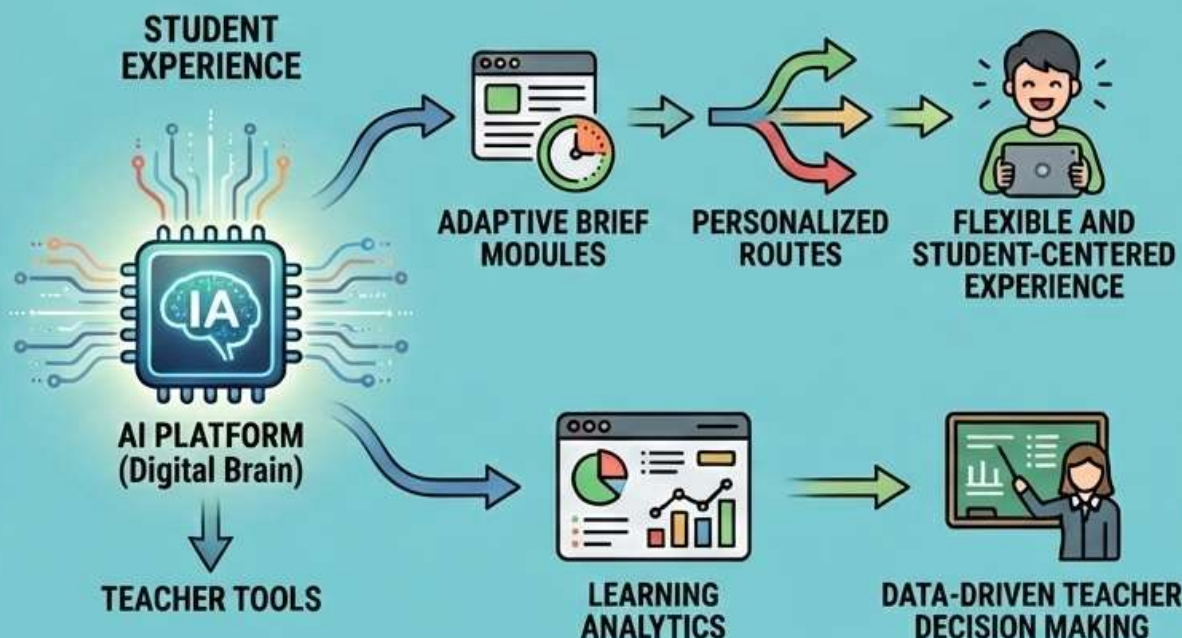
THE CHALLENGE: ACADEMIC LEVELING (STEM) AND TRADITIONAL APPROACH



Challenge intensified after confinement, crucial in STEM disciplines.

Traditional remedial courses:
Rigid, not adapted, limited results.

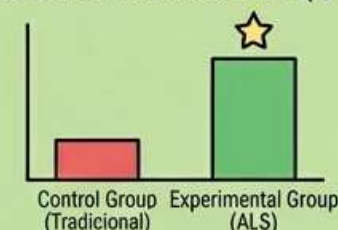
THE SOLUTION: ADAPTIVE LEARNING STRATEGY (ALS) WITH AI



Quasi-experimental & Mixed Design (QUAN > QUAL).
Sample: 1,309 students (First year, Mexico).

EVIDENCE: IMPACT AND VALUATION

ACADEMIC PERFORMANCE (QUAN)



Statistically significant differences in favor of the experimental group.

VALUATION OF THE EXPERIENCE (QUAL)



Positive evaluation from Students and Professors in terms of utility and experience.

Conclusion: An adaptive, comprehensive, and AI-mediated strategy is an effective alternative to traditional remedial methods for academic leveling, offering substantial advantages.