

SmartStudy

Nika Andriadze^a

Lizi Kitia^b

e-mail: nika.andriadze730@ens.tsu.edu.ge

^a Computer Science, Faculty of Exact and Natural Science, Tbilisi State University, 2 University Street

^b Computer Science, Faculty of Exact and Natural Science, Tbilisi State University, 2 University Street

SmartStudy is an intelligent web platform designed to simplify the learning process for students and increase study efficiency. One of the major challenges in education is processing, structuring, and reviewing large volumes of material within limited time. Many existing supporting resources are paid or require users to manually create tests and questionnaires, which demands additional time and effort.

The proposed system allows users to upload study materials (PDF, DOCX, TXT formats), after which the platform performs automatic text analysis and generates quizzes, short summaries, and study flashcards. The system supports personalized learning and produces content tailored to the user's needs.

The platform includes a study time management module — the user specifies a desired completion period, and the system distributes the material across days and generates a study plan. It also provides reminder mechanisms and progress monitoring tools, helping users track their learning and improve outcomes.

From a technical perspective, the project is implemented as a Full-Stack web application using modern technologies (React/Next.js, Node.js/Express or Django REST Framework) and open-source artificial intelligence modules. The system focuses on accessibility, flexibility, and personalized digital learning support.