**An AI-based system for enhanced self-learning**

SE-C-10

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This project introduces a learning system that incorporates the application of LLMs and RAG for the purpose of effective self-learning in deep subjects among discrete mathematics and formal logic. This model Improves three different purposes: unreliable AI-generated information and "hallucinations", solving NLP tasks with those complex morphological structures of Hebrew is not any more a hassle. The model ensures the correctness, understandability, and accessibility of the sources to the end-user. The system not only does it significantly raise the correctness of the answers to the question, by providing learners with many types of stimulation, it also helps the student to grow the capability of asking the right questions.

Keywords: discrete mathematics, formal logic, hallucinations, hebrew nlp, logic learning model, retrieval-augmented generation, self-learning