

Building an AI-based automatic programming assignment grading tool

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Abstract: This topic aims to analyze and address the current challenge in grading programming assignments, a crucial aspect of the teaching and learning process. Through the practical context of increasing demands for automated assessment quality, the main objective is to build an automatic grading tool based on artificial intelligence (AI). The research method combines AI theory with implementation experiments to determine the system's effectiveness and reliability. The expected outcomes of this topic not only enhance teaching capacity by reducing the workload for teachers but also contribute to the process of innovation in technology education.

Keywords: artificial intelligence, automatic grading, programming, technology teaching, applied AI