

SMART EDUCATION MANAGEMENT SYSTEM

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ABSTRACT

The Smart Education Management System is an interactive, web-based platform designed to guide students and job seekers in assessing and enhancing their employability. In the modern job landscape, individuals need more than just academic qualifications they require sharp aptitude, well-structured resumes, and focused learning paths to match industry needs. This system is tailored to provide all three essential tools in one place: aptitude testing, resume evaluation, and career specific course suggestions. The platform offers an online aptitude test that measures a user's capabilities in logical reasoning, numerical problem-solving, and English comprehension. This test delivers real-time results and feedback, helping users immediately understand their strengths and the areas they need to improve. Unlike conventional systems, the feedback is tailored and useful for shaping personal development. One of the system's standout features is the ATS (Applicant Tracking System) friendly resume checker. Users can upload resumes in various formats (.doc, .docx, .pdf), and the system analyzes them for structure, content, keyword density, and formatting. It then provides a score and suggestions, enabling users to optimize their resumes for better visibility during hiring. Course recommendations are another major component. Based on the aptitude test results and chosen career goals, the system suggests learning resources and online courses from platforms like Coursera.

Keywords: Applicant Tracking System, Artificial Intelligence, Internet of Things, Intelligent Tutoring System, Automated Educational Management Systems, User Interface/user experience, JavaScript Library for Building User Interfaces, Not Only SQL, Unified Modeling Language