

Student Academic Analyzer and Career Guidance System

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Abstract: *In today's competitive world, students often struggle to identify their strengths and align them with suitable career paths. This paper presents a Student Academic Analyzer and Career Guidance System that leverages data analytics and artificial intelligence to assess students' academic performance, skills, and interests. The system collects and processes academic records, extracurricular achievements, and aptitude test results to generate personalized insights. It employs machine learning algorithms to predict students' strengths and recommend suitable career paths, educational programs, and skill-enhancement opportunities. Additionally, the system offers real-time feedback, career counseling support, and resources for continuous learning. By integrating AI-driven recommendations and data-driven insights, this system aims to bridge the gap between education and career planning, enabling students to make informed decisions. Experimental results demonstrate its effectiveness in guiding students towards optimal academic and career choices.*

Keywords: Academic Analysis, Career Guidance, Machine Learning, Student Performance, AI-Based Counseling

