Design and Implementation of Interview Practice using AI Coach

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Abstract: *Interviews play a critical role in career development; however, many students and job seekers face challenges such as lack of confidence, poor communication skills, and limited practice opportunities. Conventional interview coaching methods are often expensive, time-consuming, and not easily accessible to all candidates. To address these issues, this paper presents the design and implementation of an Interview Practice System using an AI Coach, which simulates real interview scenarios and provides intelligent, personalized feedback.*

The proposed system leverages advancements in Artificial Intelligence, Natural Language Processing (NLP), and Speech Analysis to evaluate user responses based on grammar, clarity, relevance, tone, and confidence. Users can practice domain-specific interviews, receive real-time feedback, and track their performance through detailed reports. The system is designed to be cost-effective, scalable, and user-friendly, making it suitable for students, job seekers, and training institutes. Experimental evaluation shows that the platform significantly improves interview preparedness, communication skills, and user confidence through continuous practice and AI-driven insights..

Keywords: Interview Practice, AI Coach, Natural Language Processing, Speech Analysis, Career Preparation, Artificial Intelligence