

# InterPrep: Intelligent Mock Interview Platform for Professional Development

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## ABSTRACT

A highly interactive and customized interview preparation experience is provided by InterPrep, a state-of-the-art mock interview platform designed to enhance professional development. Modern artificial intelligence and machine learning technologies are used by InterPrep to produce dynamic, realistic interview simulations that are customized for a range of sectors, career roles, and experience levels. The platform offers a vast collection of professionally written interview questions that are meant to simulate real-world situations and provide users with a variety of challenges. InterPrep analyses user answers using complex algorithms to provide comprehensive feedback on content, structure, and delivery. This contains performance indicators to monitor development over time and tailored recommendations for enhancement.[4] InterPrep also provides role-specific modules covering a broad range of industries, including as technology, finance, healthcare, and the creative industries. People can participate in one-on-one mock interview. [1]

**Keywords:** Real-time Feedback, Personalized Interview Questions, Dynamic Interview Experience, Professional Development, Performance Feedback

## I. INTRODUCTION

In today's competitive job market, the demand for effective interview preparation is more critical than ever. Job seekers must excel in interviews to secure positions, but preparing for interviews can be daunting due to the varied nature of questions and dynamic expectations from employers. Traditional interview preparation methods, such as mock interviews or review sessions, often fail to provide real-time, personalized feedback that can help candidates refine their responses quickly. Furthermore, access to experts who can conduct such interviews is limited and costly. [2]

InterPrep aims to revolutionize the way job seekers prepare for interviews by utilizing the power of Artificial Intelligence (AI) and Natural Language Processing (NLP). This system serves as an AI-powered mock interview assistant that provides real-time feedback on candidates' responses.[7][8] By simulating a realistic interview environment, InterPrep allows users to engage in tailored practice sessions that adapt to their specific job roles, skill levels, and areas for improvement. InterPrep leverages cutting-edge AI technologies such as machine learning, automated speech recognition, and NLP to deliver personalized feedback on the fly. Through this innovative approach, candidates can refine their answers, improve their communication skills, and build confidence—all from the comfort of their home.[11][9]

## II. LITERATURE SURVEY

In the realm of interview preparation, various models and systems exist to support candidates, yet many of these approaches fail to address key challenges effectively. Traditional methods predominantly rely on the following:

- 1. Static Practice Resources:** Many platforms offer a fixed set of practice questions that do not adapt to the individual needs of candidates. This one-size-fits-all approach can lead to unproductive practice sessions that fail to target the user's specific strengths and weaknesses. This lack of adaptability in practice resources can lead to frustration and a less effective preparation process.[3]
- 2. Delayed Feedback Mechanisms:** Traditional resources provide feedback only after mock interviews, hindering immediate corrections and reinforcing poor habits, which impairs effective learning. This is delayed feedback can reinforce poor speaking habits, misinterpretations, or ineffective answering strategies, as candidates may continue to repeat these issues throughout the practice session.[5][7]







