



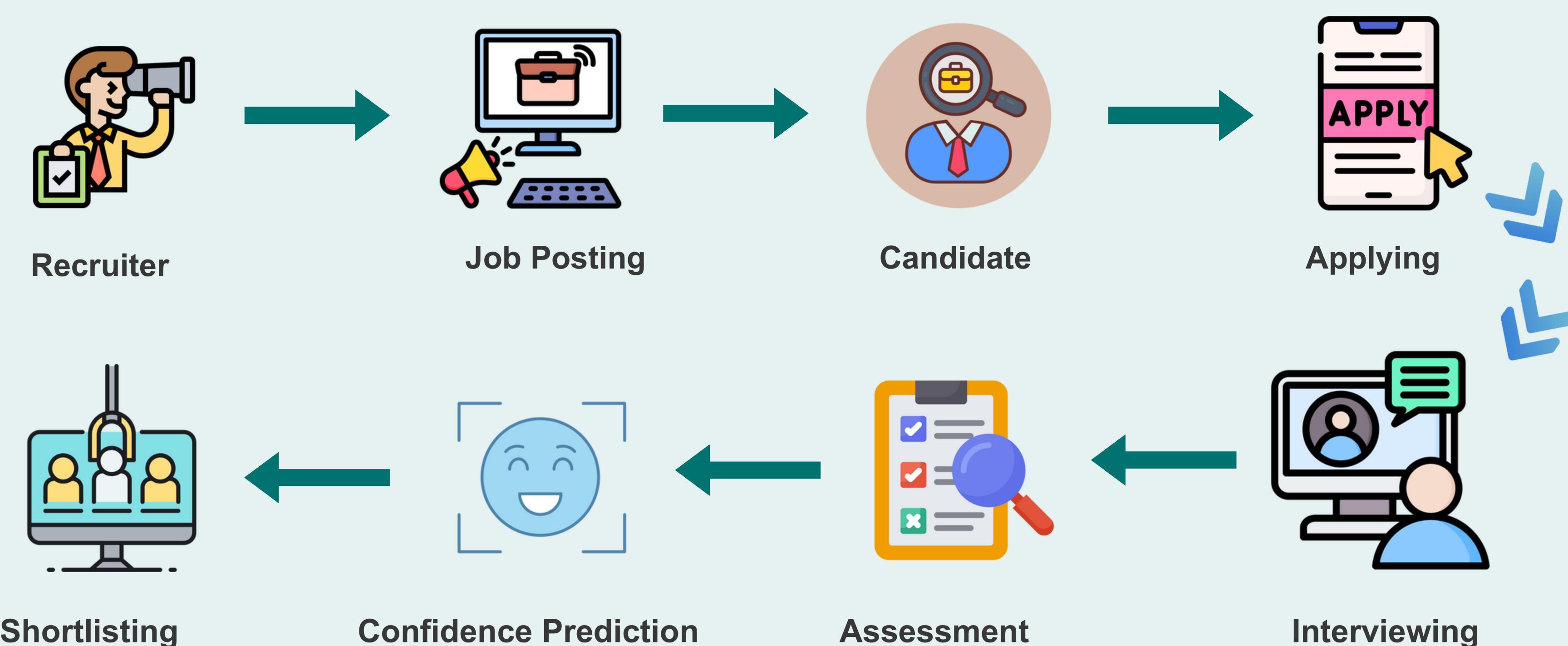
AI-Powered Interviewing System

SESSION 2021-25

Abstract

We present an AI-powered interviewing system for academic-based interviews in computer science. It automates candidate shortlisting by conducting dynamic interviews, evaluating answer quality, and analyzing facial expressions for confidence and emotions. Final scores help recruiters select top candidates. The system saves time, reduces costs, and improves efficiency through advanced natural language and dialogue management.

System Flow



Objectives

- Minimize interview time and labor by 3x.
- Automate interviews with human-like interaction.
- Generate adaptive, dynamic questions based on responses.
- Enhance natural language understanding and reduce ambiguities.
- Provide performance reports based on answer quality and confidence analysis.

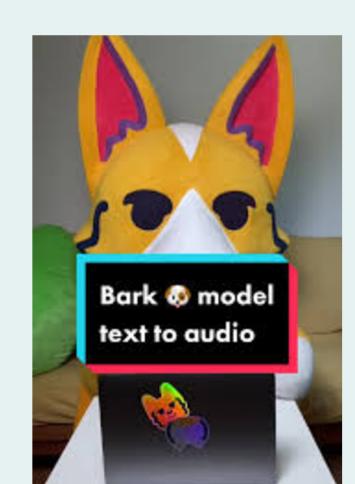
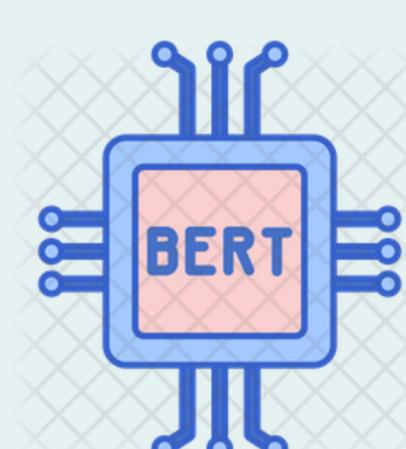
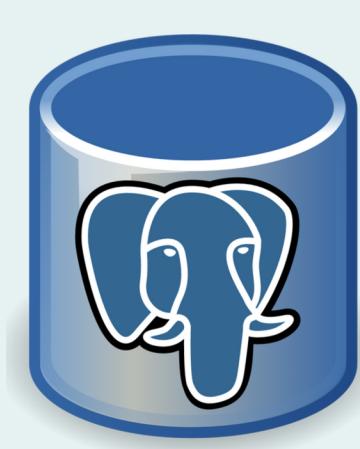
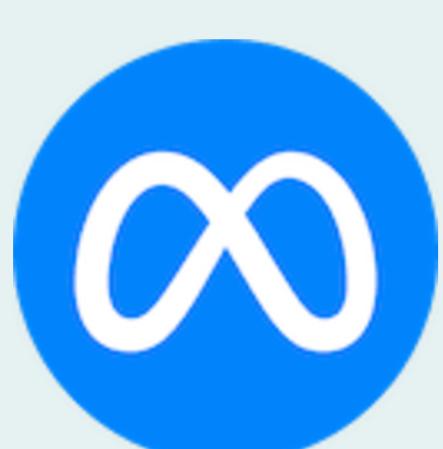
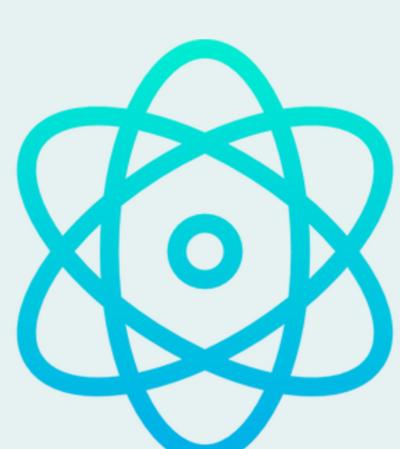
Key Features



Results

- Our AI-powered interviewing system successfully automated the interview process, achieving a 3x reduction in time and labor compared to traditional methods.
- The system generates dynamic, adaptive questions, analyzes candidate responses, and provides performance reports including confidence level analysis through facial expressions.

Tools and Technologies



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