



ReadySetHire:

AI Mock Interview Platform

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Empowers candidates through AI-driven interview practice.



Introduction

AI-driven platform enabling realistic,
interactive mock interviews.





Purpose statement:

What about interview preparation today?


Most job seekers prepare using generic questions and lack realistic practice. This leads to anxiety and poor performance in real interviews.

What about instant feedback?

Traditional methods don't offer live, actionable feedback. Candidates often don't know what to improve, making practice less effective.

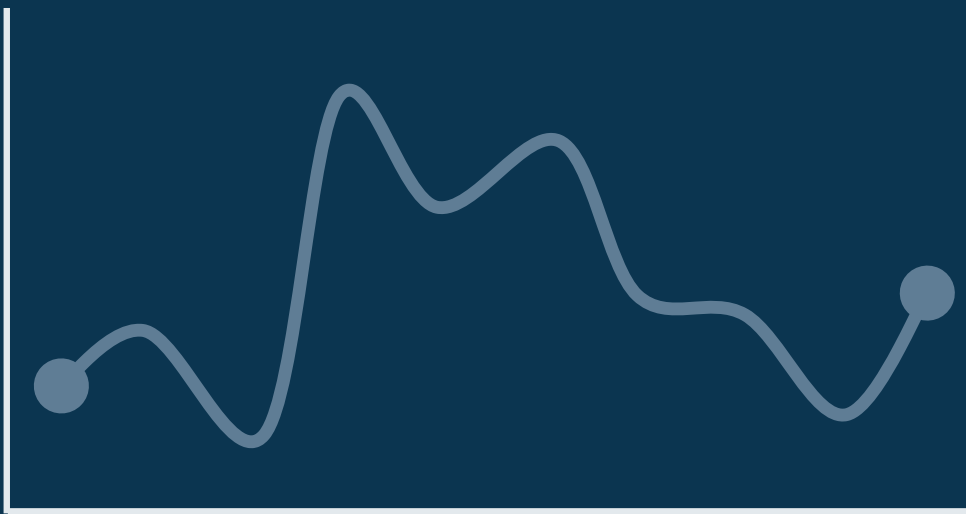
What about ReadySetHire?

ReadySetHire provides interactive mock interviews powered by AI. It generates real questions, transcribes answers, and gives instant, tailored feedback.



2,800,000,000 \$

*Projected global market for mock interview platforms
by 2027.*





99.6%

Satisfaction among users of leading AI prep tools.

40–60%

Average salary hike after using AI interview coaching.

60%

Job seekers practice with online mock interview platforms.

**“Practice is the
bridge between
knowing and
doing.”**





Problem Statement

AI-driven platform enabling realistic,
interactive mock interviews.

02



Problem Statement

“Many job seekers struggle to prepare effectively for interviews because practice tools lack real-time feedback, personalized questions, and realistic simulations. This leads to poor confidence and limited improvement.”

- Traditional resources lack dynamic, personalized question sets.
- Users do not get immediate feedback on their answers
- No realistic simulation of live interview scenarios.
- Candidates experience anxiety due to inadequate preparation.
- Limited tracking of user performance and progress.



03


Solution Overview

AI generates questions, transcribes speech, and delivers instant feedback.



Solution Overview:

ReadySetHire is like a personal interview coach powered by AI. It helps people practice real job interviews anytime, anywhere. Here's how it works:

- The system asks questions that feel just like a real interviewer would. These questions change based on your answers, so each practice is unique.
 - When you speak your answers, ReadySetHire listens and turns your speech into text, just like a live conversation.
 - It then instantly gives you feedback—not just if you answered correctly, but tips on how to improve your tone, clarity, and content.
 - The goal is to make the interview practice as close to the real thing as possible, so users feel confident and ready on the big day.
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Objectives & Goals

Create adaptive interview practice to
enhance candidate performance.

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Objectives & Goals:

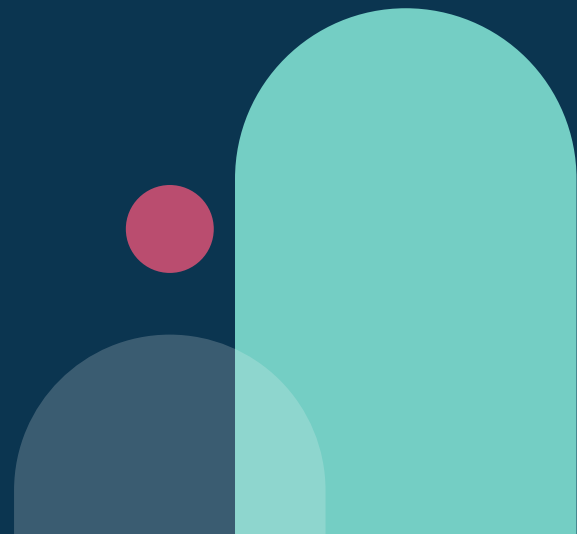
- Build an easy-to-use platform for realistic interview practice.
- Use AI to generate personalized, relevant interview questions on the fly.
- Provide instant, helpful feedback to improve both answers and speaking style.
- Allow users to track their progress and identify improvement areas.
- Make interview prep accessible anytime, removing the need for a human coach.
- Create a scalable solution that can adapt to various industries and languages.



05

Technical Architecture

React frontend, Flask backend, AI and
speech-to-text APIs.



Technical Architecture:

Frontend (User Interface): Built with React, providing an interactive and responsive experience for users to practice interviews.

Backend (Server): Developed using Flask in Python, managing API requests, user data, and communication with AI services.

AI Services:

- *Google Gemini API* handles generating interview questions and analyzing user answers for feedback.
- *AssemblyAI* converts user speech into text for analysis and feedback.

Webcam Integration: OpenCV is used to capture facial expressions and gestures for advanced non-verbal feedback (planned future enhancement).

Alternative UI: Streamlit used for quick prototyping and demo.


Key Features

Live AI questions, speech recognition,
feedback, and progress tracking.

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Key Features:

- **AI-Powered Questions:** Smart, dynamic questions that adapt based on user responses.
 - **Speech-to-Text:** Converts spoken answers to text for precise analysis.
 - **Instant Feedback:** Personalized suggestions on content, tone, and clarity to improve every answer.
 - **Progress Tracking:** Users can review past interviews and monitor their improvement curve.
 - **Realistic Simulation:** Mimics real interview conditions closely to build confidence.
 - **Multi-Platform Access:** Web-based, allowing practice anytime, on any device.
 - **Future Ready:** Plans for facial expression feedback and multi-language support.
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Results & Outcomes

Seamless AI integration with effective
prototype and user validation.





Results & Outcomes:

- Successfully integrated *Google Gemini AI* and *AssemblyAI* speech-to-text.
- Built a fully functional prototype with real-time question generation.
- Delivered instant, personalized feedback on users' spoken answers.
- Achieved smooth, near real-time interaction with minimal latency.
- Positive initial testing with internal users showing improved confidence.
- Created a foundation for further feature development and scalability.



Challenges & Solutions

Handled API sync, diverse speech inputs, and privacy concerns.

08



Challenges & Solutions:

Challenge: Coordinating multiple AI APIs caused delays and sync issues.

Solution: Used modular design and async processing for smooth API integration.

Challenge: Speech transcription struggled with different accents and noisy backgrounds.

Solution: Optimized audio input, tested with diverse voice samples for robustness.

Challenge: Ensuring user data privacy during speech and feedback processing.

Solution: Implemented strong encryption and minimal data retention policies.

Challenge: Providing real-time feedback without noticeable lag.

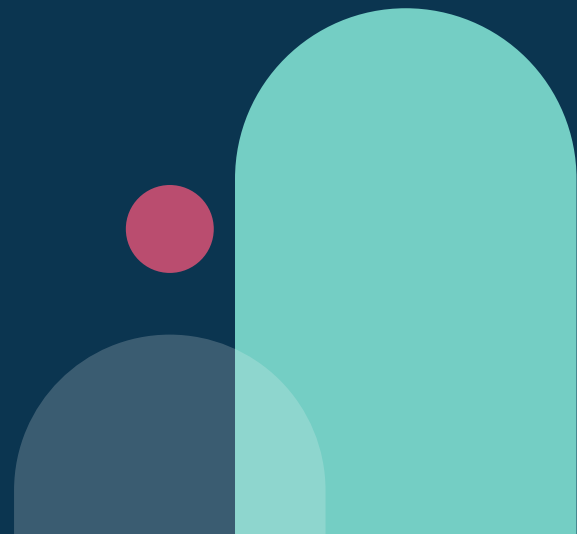
Solution: Optimized backend calls and leveraged efficient streaming APIs.



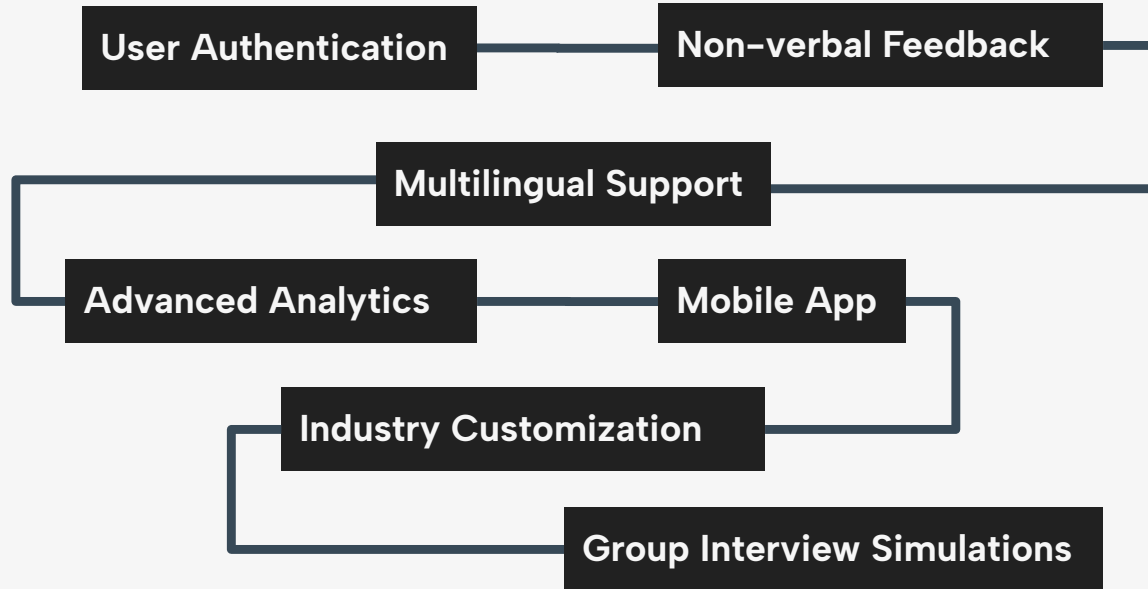


Future Roadmap

Implement user profiles, non-verbal cues, and language support.



Future Roadmap:



Conclusion & Impact

Empowers candidates with practical
AI-based interview preparation.

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Conclusion & Impact:

ReadySetHire empowers job seekers with a smart, AI-driven interview practice platform. It bridges the gap between traditional preparation and real interview experience by offering adaptive questions and instant feedback. This boosts candidate confidence, improves skills, and increases chances of success. The project showcases practical AI application, full-stack development, and a scalable solution with real-world value.

