

# **NexInterview - AI-Driven Mock Interview Preparation Platform**

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**Abstract:** *NexInterview is an AI-powered interview preparation platform that addresses the limitations of traditional preparation methods by offering personalized mock interviews with voice interaction. Built on Next.js, React, and TypeScript, the system leverages Google Gemini AI for generating role-specific interview questions and feedback, while VAPI enables natural voice conversations. The application guides users through specifying job parameters, conducts realistic mock interviews via AI voice assistants, and provides comprehensive performance analysis. Our development journey involved overcoming challenges in question relevance, natural voice interactions, and meaningful feedback generation. NexInterview demonstrates how AI can create human-centered experiences that enhance career development through practical, personalized preparation in a pressure-free environment.*

**Keywords:** AI-powered interview preparation, mock interviews, voice interaction, Google Gemini, VAP, AI feedback, career development, human-centered design, performance analysis, natural language processing

