

Agentic AI-Powered Interview Preparation Coach

POC Idea for AI Hackathon - HR
Domain

Problem Statement

- Job seekers often struggle to prepare effectively for interviews due to:
 - - Lack of personalized guidance
 - - No real-time feedback
 - - Difficulty predicting possible questions based on job roles
 - - Limited access to mock interviews or coaching

Proposed Solution

- An Interview Preparation App powered by Agentic AI with multiple collaborative agents:
 - 1. JD Analyzer Agent: Extracts skills from job descriptions
 - 2. Resume Analyzer Agent: Extracts user experience and achievements
 - 3. Question Generator Agent: Generates tailored questions
 - 4. Mock Interview Agent: Simulates real interviews
 - 5. Feedback Agent: Rates and provides feedback

Technology Stack

- - Python, LangChain or CrewAI for agent orchestration
- - OpenAI GPT-4 or Azure OpenAI
- - Streamlit for UI
- - SpaCy, PyPDF2/docx for resume parsing
- - Sentence Transformers for semantic matching
- - Qdrant/ChromaDB for vector memory (optional)
- - Whisper & ElevenLabs for voice input/output (optional)

Architecture / Flow Diagram

