TalentScout: AI Hiring Assistant Chatbot

TalentScout is an Al-powered hiring assistant built using Streamlit and Gemini LLM. It collects candidate details, generates personalized technical questions based on the tech stack, and stores their responses for evaluation.

Features

Step-by-step flow: Basic info \rightarrow Tech Stack \rightarrow Auto-generated questions \rightarrow Answer submission

Uses Google Gemini API (via google.generativeai)

Automatically saves:

Candidate details to candidates.csv

Q\&A responses to qa_pairs.csv

Streamlit-based interactive UI

Exit option at any point

How It Works

- 1. Candidate enters personal and professional info.
- 2. Based on the tech stack (languages, frameworks, tools), Gemini generates 3–5 technical interview questions.
- 3. Candidate answers each question one by one.
- 4. On submission, answers are stored for review.

Project Structure

hiring_assistant_chatbot_5/

├— app.py Main Streamlit app

— .gitignore Ignore virtual environment and other unnecessary files Python package dependencies — requirements.txt — candidates.csv Stores candidate info └─ qa pairs.csv Stores question-answer responses **Installation & Running** Step 1: Clone the repository git clone https://github.com/varshithaga/hiring_assistant_chatbot_5.git cd hiring assistant chatbot 5 **Step 2: Create and activate virtual environment** python -m venv venv For Windows: .\venv\Scripts\activate For Mac/Linux: source venv/bin/activate **Step 3: Install dependencies** pip install -r requirements.txt **Step 4: Run the Streamlit app** streamlit run app.py **Gemini API Setup** Get Gemini API from: vour https://makersuite.google.com/app/apikey 2. Replace this line in app.py: API KEY = "YOUR API KEY"

with:

API_KEY = "your_actual_key"

Output Files

candidates.csv

Stores fields: user_id, name, email, phone, experience, position, location, languages, frameworks, databases, tools

qa_pairs.csv

Stores each question-answer pair with the associated user_id.

Example

Candidate Name: Alice

Languages: Python, Java

Frameworks: Django, Spring

Databases: MySQL

Tools: Docker, Git

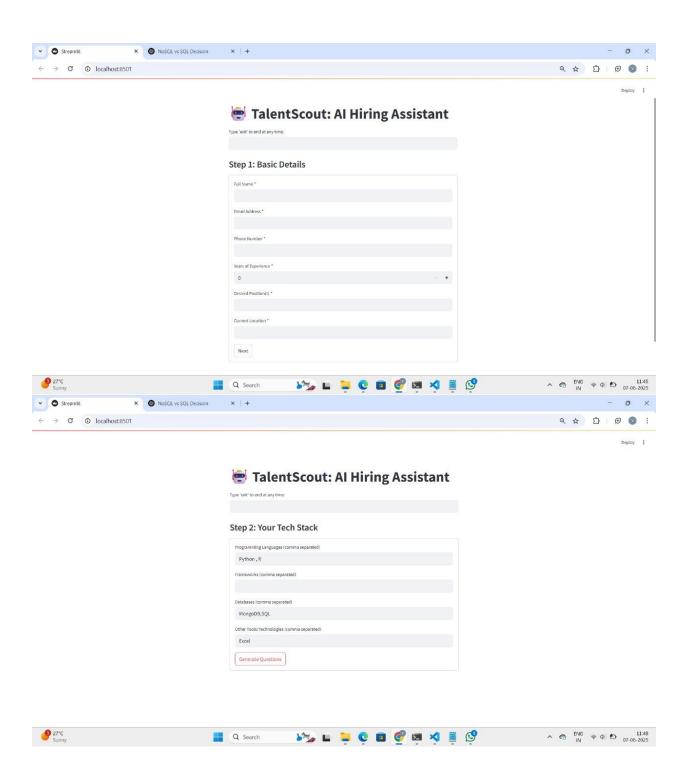
Sample Question: What are the key features of Django ORM?

Notes

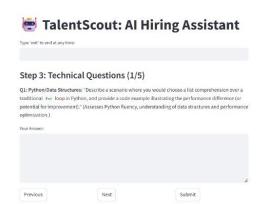
The app skips generic explanations in LLM outputs to keep questions concise.

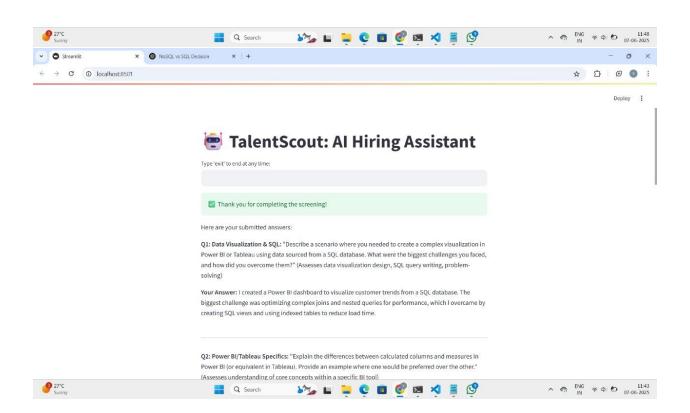
You can type "exit", "quit", or "bye" anytime to end the session early.

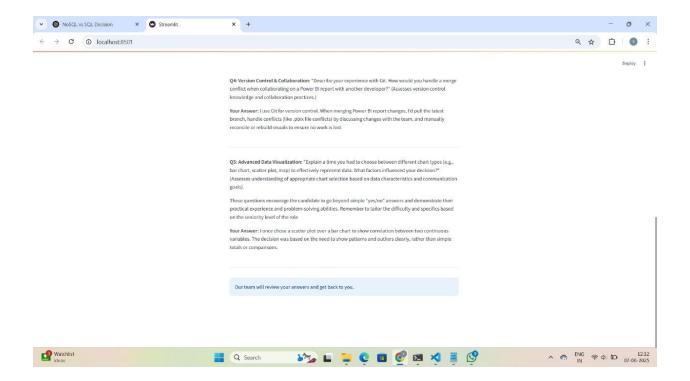
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Data Stored in csv files

