

# TalentScout Hiring Assistant

An intelligent Streamlit-based chatbot that assists recruiters in screening candidates by collecting key information and generating technical questions based on their tech stack.

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## Features

- Friendly chatbot interface using Streamlit
  - Step-by-step candidate data collection
  - Auto-generated technical questions from OpenRouter (free GPT alternative)
  - Clean, readable UI with chat history
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## Demo

To launch locally:

```
streamlit run app.py
```

Live hosting: *[Optional if deployed]*

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## Tech Stack

- Python
  - Streamlit (Frontend UI)
  - OpenRouter API (LLM backend)
  - dotenv (for secure token management)
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## Setup Instructions

1. Clone the repository or unzip the folder
2. Install dependencies

```
pip install -r requirements.txt
```

(Or manually install)

```
pip install streamlit openai python-dotenv
```

1. Add your OpenRouter API key Create a `.env` file:

```
OPENROUTER_API_KEY=or-xxxxxxxxxxxxxxxxxxxx
```

1. Run the chatbot

```
streamlit run app.py
```

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## Prompt Design

Prompts are dynamically constructed using candidate responses. Example:

Generate 3 technical interview questions for someone skilled in: Python, Django, MySQL

LLMs like `mistralai/mistral-7b-instruct` from OpenRouter are used to return appropriate questions.

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## Sample Output

**Candidate Tech Stack:** Python, Django, SQL

**Generated Questions:**

1. How does Django handle database migrations?
2. What are Python decorators and how are they used?
3. Explain different types of SQL joins.

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## Challenges & Solutions

- **Hugging Face 404s:** Switched to OpenRouter for better stability.
- **Quota Limits on OpenAI:** Bypassed by using free LLM alternatives.
- **Prompt Formatting:** Used simple structured prompts for accurate question generation.

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## Evaluation Criteria Mapping

Criteria	How It's Addressed
Technical Proficiency	Clean code, full session handling, LLM use

Criteria	How It's Addressed
Prompt Engineering	Dynamic prompt generation based on input
UI & UX	Simple, friendly Streamlit chat interface
Documentation & Presentation	This README + possible video walkthrough
Enhancements	External API + dotenv + token security

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## Submission

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## Credits

Built by **Jaya Lakshmi Prasanna Patnala** for the AI/ML Internship Assignment ✨