**TalentScout: Hiring Assistant Chatbot**

**Overview** 🌟🌟🌟

**TalentScout** is an interactive, user-friendly chatbot built on **Streamlit** that aids in the recruitment process. It efficiently collects candidate information, anonymizes sensitive data, and generates technical questions customized to the candidate's expertise and experience. The app features a modern and appealing interface, making it ideal for recruiters and HR professionals looking for an intuitive tool to streamline their hiring process.

**Features** 🎯🎯🎯

**1. Interactive User Interface**

* Modern design incorporating animations, progress bars, and hover effects to enhance user engagement.

**2. Secure Data Handling**

* Protects sensitive candidate information (e.g., name, email, phone number) by anonymizing details before submission.

**3. Tailored Technical Questions**

* Generates personalized technical questions based on the candidate's provided tech stack and experience level.

**4. Responsive Design**

* Optimized to function seamlessly across various devices and screen sizes for a user-friendly experience.

**5. Final Review Step**

* Presents a summary of candidate information for final review, then thanks the candidate for their participation.

**Technologies Used** 💻💻💻

* **Frontend Framework**: Streamlit (for interactive app UI)
* **Styling**: Custom CSS (for modern and aesthetic design)
* **Backend Logic**: Python (for anonymizing data, generating questions, and simulating progress)
* **Language Model**: Integration with LLMs to generate dynamic technical questions

**Prerequisites** 🛠️🛠️🛠️

To run **TalentScout**, the following is required:

* **Python 3.8+**
* **Streamlit** installed. You can install it by running:pip install streamlit
* Backend functions should be implemented in a backend.py file.

**Installation** 🚀🚀🚀

**Step 1: Clone the Repository**

Clone the project from GitHub to your local machine: git clone <https://github.com/chanchalalam/TalentScout.git> cd talentscout

**Step 2: Install Dependencies**

Install all required dependencies by running: pip install -r requirements.txt

**Step 3: Configure the Backend**

In the backend.py file, define the following functions:

* **hash\_data(data: str) -> str**: Hashes the input data (such as candidate information).
* **query\_llama(conversation: list) -> str**: Uses the LLM backend to generate responses based on a conversation.
* **simulate\_progress()**: Simulates progress to create a loading effect.

**Step 4: Run the Application**

Launch the app by running the following command: streamlit run app.py

**Usage** 📋📋📋

1. **Open the App**: Access the app by navigating to it in your browser.
2. **Enter Candidate Details**: Input essential information such as the candidate's name, email, and tech stack.
3. **Submit the Form**: Upon submission, the app will anonymize sensitive details and move forward in the hiring process.
4. **View Personalized Technical Questions**: Based on the candidate’s expertise, the chatbot will generate custom technical questions.
5. **Complete the Process**: After answering the questions, candidates can review their responses, and the session will be concluded.

**File Structure** 📂📂📂

├── app.py # Main Streamlit app file

├── backend.py # Backend utility functions data hashing, LLM queries)

├── requirements.txt # Python dependencies

└── README.md # Project documentation

**Customization** ✨✨✨

You can enhance or modify the **TalentScout** app in the following ways:

**1. Styling Adjustments**

* Modify the custom CSS section in the app.py file to alter the app’s appearance (colors, fonts, animations, etc.).

**2. Backend Enhancements**

* Extend the functionality of the backend by integrating additional APIs or LLMs to offer more advanced candidate interaction.

**3. Feature Expansion**

* Introduce new features such as candidate evaluation systems or export functions (CSV, PDF, etc.) for better data management.

**Contributing** 🤝🤝🤝

Contributions are always welcome! If you wish to contribute to **TalentScout**, follow these steps:

1. Fork the repository.
2. Make your improvements.
3. Submit a pull request for review.

Your contributions will help improve the application, making it even more useful for recruiters and HR professionals. 😊

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