AI-Powered About Me Generator

Overview

This is a Streamlit-based web application that helps users generate engaging and personalized "About Me" sections for platforms like LinkedIn, resumes, and personal websites. The app leverages the **Gemini Generative AI API** by Google to create professional, casual, or enthusiastic bios tailored to individual needs.

Features

- **Customizable Bio Generation**
  - Generate bios in different tones (e.g., Casual, Professional, Enthusiastic, or Custom)
  - Specify details like name, profession, skills, and tone to create tailored outputs
- **Streamlit-Powered User Interface**
  - Interactive and intuitive interface for users to input their preferences
- **Real-Time AI-Generated Results**
  - Uses the **Gemini Generative AI API (Pro 1.5)** for high-quality text generation

Technologies Used

- **Frontend**: Streamlit
- **Backend**: Python
- **AI Model**: Gemini Generative AI (Pro 1.5)
- **Authentication**: Google Generative AI API key

Installation and Setup

Prerequisites

- Python 3.8–3.12
- Google Generative AI API Key

Steps

1. **Clone the Repository**:

```
git clone https://github.com/your-username/your-repo-name.git
cd your-repo-name
```

2. **Create a Virtual Environment**:

```
python3 -m venv venv
source venv/bin/activate  # On Windows: venv\Scripts\activate
```

3. **Install Dependencies**:

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

4. **Set Up API Key**: Create a `.env` file in the root directory and add your Google Generative AI API key:

```
GOOGLE_API_KEY=your_google_api_key
```

5. **Run the Application**:

```
streamlit run app.py
```

Usage

1. Open the app in your browser (Streamlit provides the local URL)
2. Enter details such as:
   - Name
   - Profession
   - Skills
   - Desired Tone (Casual, Professional, Enthusiastic, or Custom)
3. Click "Generate Bio" to get your personalized "About Me" section

Environment Variables

Ensure your `.env` file includes the following:

```
GOOGLE_API_KEY=your_google_api_key
```

Project Structure

```
.
├── app.py            # Main Streamlit app
├── server.py         # Backend logic for bio generation
├── requirements.txt  # Python dependencies
├── .env              # API key (not included in the repository)
├── .gitignore        # Ignored files and folders
└── README.md         # Project documentation
```

Key API Information

- **Model Used**: Gemini Pro 1.5

- **Endpoint**: `generate_text`
- **Features**:
  - Customizable Prompt Engineering: Tailored prompts for generating bios in various tones
  - Parameter Adjustments:
    - `temperature`: Controls creativity (e.g., 0.7 for balanced, 0.8 for casual tone)
    - `max_output_tokens`: Limits the length of the generated bio

Example

Input:

```
Name: Alice
Profession: Data Scientist
Skills: Machine Learning, Python, Data Visualization
Tone: Enthusiastic
```

Generated Bio:

```
Meet Alice, an enthusiastic Data Scientist passionate about solving
complex problems with Machine Learning. With expertise in Python and Data
Visualization, she transforms raw data into actionable insights, bringing
energy and creativity to every project!
```

Contributing

1. Fork the repository
2. Create a new branch for your feature/bug fix:

   ```
   git checkout -b feature-name
   ```

3. Commit your changes and push to the branch:

   ```
   git commit -m "Add new feature"
   git push origin feature-name
   ```

4. Submit a pull request

License

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Acknowledgments

- Thanks to Google Generative AI (Gemini Pro 1.5) for powering the text generation
- Built with ❤️ using Streamlit

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