RESUME GENERATOR

Name: Alankrita Upadhyay

Reg. No.: 23BCE2044

CODE:

```python
resume_generator_app.py > ...
1   import streamlit as st
2   import requests
3   from streamlit.components.v1 import html
4
5   # ---------- Streamlit App UI ----------
6   st.set_page_config(page_title="Styled Resume Generator", page_icon="📄", layout="wide")
7
8   st.title("📄 AI Resume Generator – Professional HTML Format")
9   st.markdown("Fill in your resume details below 👇")
10
11  # ---------- User Input Form ----------
12  with st.form("user_input_form"):
13      st.subheader("👤 Personal Information")
14      name = st.text_input("Full Name", placeholder="e.g., Alankrita Upadhyay")
15      phone = st.text_input("Phone Number", placeholder="e.g., +91-9876543210")
16      email = st.text_input("Email Address", placeholder="e.g., alankrita@example.com")
17      linkedin = st.text_input("LinkedIn URL", placeholder="e.g., https://linkedin.com/in/yourname")
18      portfolio = st.text_input("Portfolio URL", placeholder="Optional")
19      address = st.text_input("Address", placeholder="e.g., Bengaluru, India")
20
21      st.subheader("🎓 Education & 💼 Experience")
22      education = st.text_area("Education", placeholder="B.Tech in Computer Science from ABC University, Graduated 2023\nM.S. in Data Science from XYZ Institute, 2025")
23      experience = st.text_area("Experience", placeholder="Software Developer at XYZ Corp (2022-2024)\n- Developed Python APIs to handle user authentication, increasing security by 20%.\
24
25      st.subheader("🛠 Skills")
26      skills = st.text_area("Technical & Soft Skills", placeholder="Programming: Python, Java, JavaScript\nWeb Technologies: React, Node.js, HTML, CSS\nDatabases: SQL, MongoDB\nTools: Gi
27
28      st.subheader("📄 Job Description (Used to tailor resume)")
29      job_description = st.text_area("Job Description", placeholder="We're hiring a software developer skilled in Python, Java, databases, and cloud platforms. Experience with agile meth
30
31      submitted = st.form_submit_button("Generate Styled Resume")
```

```python
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6   out="wide")
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14  )
15  )
16  ple.com")
17  edin.com/in/yourname")
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21
22  ience from ABC University, Graduated 2023\nM.S. in Data Science from XYZ Institute, 2025")
23  at XYZ Corp (2022-2024)\n- Developed Python APIs to handle user authentication, increasing security by 20%.\n- Optimized SQL queries, reducing database load by 15%.")
24
25
26  g: Python, Java, JavaScript\nWeb Technologies: React, Node.js, HTML, CSS\nDatabases: SQL, MongoDB\nTools: Git, Docker, AWS\nSoft Skills: Communication, Problem-solving, Teamwork")
27
28
29  ing a software developer skilled in Python, Java, databases, and cloud platforms. Experience with agile methodologies is a plus.")
30
```

```python
33    # ---------- Resume Generation ----------
34    if submitted:
35        required_fields = [name, phone, email, experience, skills, education, job_description]
36        if not all(field.strip() for field in required_fields):
37            st.warning("⚠ Please fill in all required fields.")
38        else:
39            with st.spinner("Generating resume using Gemini..."):
40                API_KEY = "AIzaSyBggKzJMRlCs9UiOLWgCGJqp9M61eLNYuE"
41                url = f"https://generativelanguage.googleapis.com/v1beta/models/gemini-1.5-flash:generateContent?key={API_KEY}"
42
43                headers = {
44                    "Content-Type": "application/json"
45                }
46
47                # Enhanced prompt for better styling, specifically adding color to headings
48                prompt = f"""
49    You are a professional resume builder. Your task is to generate a modern, clean, and visually appealing **two-column HTML resume with inline CSS**.
50
51    Here is the user's information:
52    Name: {name}
53    Phone: {phone}
54    Email: {email}
55    LinkedIn: {linkedin}
56    Portfolio: {portfolio}
57    Address: {address}
58    Education: {education}
59    Experience: {experience}
60    Skills: {skills}
61    Job Description: {job_description}
62
```

```
63    ⚠ STRICT INSTRUCTIONS for HTML and CSS generation:
64    - The entire output MUST be a complete and valid HTML document, including `<!DOCTYPE html>`, `<html>`, `<head>`, and `<body>` tags.
65    - Use **inline CSS only**. Do NOT use `<style>` tags or external stylesheets.
66    - The layout must be a clean **two-column design**.
67        - **Left Column (approx 30% width):**
68            - Prominently display Full Name at the top, styled as a main heading.
69            - Below the name, list Contact Information (Phone, Email, LinkedIn, Portfolio - if provided, and Address).
70            - Use icons (emojis or simple text symbols) next to contact details for a modern look.
71            - Ensure good spacing and readability.
72        - **Right Column (approx 70% width):**
73            - Start with an "About Me" section (summary). Craft this summary to be concise and impactful, highlighting key skills and experience relevant to the provided Job Description.
74            - Follow with "Experience" section. For each experience entry, include Company, Role, Location, and Dates. Use clear bullet points for responsibilities and quantifiable achie
75            - Next, "Education" section. List degrees, institutions, and graduation years.
76            - Finally, "Skills" section. Categorize skills (e.g., Programming Languages, Tools, Frameworks, Soft Skills) for better readability.
77    - **Styling Guidelines:**
78        - Use a clean, professional sans-serif font (e.g., Arial, Helvetica, Lato, Roboto - ensure it's a common web-safe font).
79        - Use a subtle color palette: main text dark grey/black.
80        - **All section headings (e.g., "About Me", "Experience", "Education", "Skills") must have a distinct color, like a professional blue (#0056b3) or a deep green (#28a745) to highl
81        - Ensure adequate padding and margins for readability.
82        - Headings should be clear and distinct, bolded, and properly sized.
83        - Bullet points for experience should be well-formatted.
84        - No place holders like "(Your Name)", "(Insert here)", or "(Add Skill)". Use only the provided input.
85        - Return ONLY clean HTML. No markdown, no explanations, no code blocks (```html), just the raw HTML.
86    """
87
```

```python
        payload = {
            "contents": [
                {
                    "role": "user",
                    "parts": [{"text": prompt}]
                }
            ]
        }

        try:
            response = requests.post(url, headers=headers, json=payload)
            response.raise_for_status() # Raise an HTTPError for bad responses (4xx or 5xx)
            result = response.json()

            # Access the 'text' key from the first 'part' of the first 'candidate'
            html_content = result['candidates'][0]['content']['parts'][0]['text']

            st.success("✅ Resume generated successfully!")
            st.markdown("---")
            st.markdown("### 📄 Your Styled Resume:")
            html(html_content, height=1000, scrolling=True)

        except requests.exceptions.RequestException as req_err:
            st.error("❌ Request error. Check your API key or connection.")
            st.text(f"Error: {str(req_err)}")
            if response is not None:
                st.text(f"Response status: {response.status_code}")
                st.text(f"Response body: {response.text}")

        except (KeyError, IndexError):
            st.error("❌ Unexpected API response format. Please check your input or model access.")
            if response is not None:
                st.code(response.text)
            else:
                st.error("No response received from the API.")
```

OUTPUT:

👷 AI Resume Generator — Professional HTML Format

Deploy ⋮

Fill in your resume details below 👇

👤 Personal Information ⊂⊃

Full Name

Alankrita Upadhyay

Phone Number

4326453243

Email Address

alau@gmail.com

LinkedIn URL

https://linkedin//alankrita

Portfolio URL

Optional

Address

Hyderbad, India

🎓 Education & 💼 Experience

De

Education

B.tech in computer science from VIT, Vellore

Experience

software developer at Google for 3 years
-developed python apps and increased efficiency by 20%

🛠 Skills

Technical & Soft Skills

Programming:python, java, C++
Styling: HTML, CSS
Database: SQL

📄 Job Description (Used to tailor resume)

Job Description

I am looking for a job as a sofware developer

Generate Styled Resume

✅ Resume generated successfully!

📄 **Your Styled Resume:**

Alankrita Upadhyay

📞 4326453243

✉ alau@gmail.com

🔗 https://linkedin//alankrita

📍 Hyderbad, India

About Me

A highly motivated and results-oriented software developer with 3 years of experience at Google, specializing in Python application development. Proven ability to enhance efficiency and deliver high-quality solutions. Seeking a challenging role where I can leverage my skills in Python, Java, C++, HTML, CSS, and SQL to contribute to a dynamic team.

Experience

Google

Software Developer | Mountain View, CA | 2020-2023

- Developed Python applications, resulting in a 20% increase in efficiency.

Education

B.Tech in Computer Science, VIT, Vellore

Skills

Programming:

Python, Java, C++

Styling:

HTML, CSS

Database:

SQL