

GENAI RESUME BUILDER

Python code:

```
import streamlit as st
import openai
from reportlab.lib.pagesizes import LETTER
from reportlab.pdfgen import canvas
from reportlab.lib.utils import ImageReader
from io import BytesIO
from PIL import Image

# Streamlit Page Config
st.set_page_config(page_title="GenAI Resume Builder", layout="centered")

# Custom background using container
with st.container():
    st.markdown("""
        <style>
        section.main {
            background-color: #eef2f7;
            padding: 20px;
            border-radius: 10px;
        }
        </style>
    """", unsafe_allow_html=True
)

    st.title("🧠 GenAI Resume Builder + OpenAI")
    st.markdown("Create a smart, professional resume powered by OpenAI!")

# 🔒 OpenAI Key Input
openai_api_key = st.text_input("🔑 Enter your OpenAI API key", type="password")
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# Input Form

with st.form("resume_form"):

    st.subheader("👤 Personal Info")

    name = st.text_input("Full Name", "John Doe")
    designation = st.text_input("Job Title", "Software Developer")
    company = st.text_input("Company", "Tech Solutions")
    email = st.text_input("Email", "john@example.com")
    phone = st.text_input("Phone", "+91 9876543210")
    linkedin = st.text_input("LinkedIn URL", "https://linkedin.com/in/johndoe")
    profile_pic = st.file_uploader("Upload Profile Picture", type=["jpg", "jpeg", "png"])

    st.subheader("🛠 Skills")
    skills = st.text_area("Skills (comma-separated)", "Python, Streamlit, AI")

    st.subheader("📁 Projects")
    projects = st.text_area("Projects", "- Resume Builder\n- Chatbot")

    st.subheader("🎓 Education")
    education = st.text_area("Education", "B.Tech in CSE, XYZ University")

# Button to trigger objective generation

generate_objective = st.form_submit_button("✨ Generate Objective using GenAI")

if generate_objective and openai_api_key:

    try:
        openai.api_key = openai_api_key
        with st.spinner("Generating objective..."):
            prompt = f"Write a professional career objective for a {designation} skilled in {skills}."
            response = openai.ChatCompletion.create(
                model="gpt-3.5-turbo",

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        messages=[{"role": "user", "content": prompt}],
        temperature=0.7,
        max_tokens=100
    )

    objective = response.choices[0].message.content.strip()

    st.success(" ✅ Objective generated!")

except Exception as e:
    st.error(f"OpenAI Error: {e}")

    objective = "To obtain a challenging role in a growth-oriented organization."

else:
    objective = st.text_area(" 🎯 Career Objective", "To obtain a challenging position in a reputable organization.")

final_submit = st.form_submit_button(" 📄 Generate Resume PDF")

# PDF Generator

def generate_pdf(buffer, profile_image=None):
    c = canvas.Canvas(buffer, pagesize=LETTER)
    width, height = LETTER
    y = height - 50
    lh = 20

    if profile_image:
        c.drawImage(ImageReader(profile_image), width - 120, height - 120, 60, 60)

    c.setFont("Helvetica-Bold", 18)
    c.drawString(50, y, name)
    y -= lh
    c.setFont("Helvetica", 13)
    c.drawString(50, y, f"{designation} at {company}")
    y -= lh * 2
```

```
c.setFont("Helvetica", 11)

c.drawString(50, y, f"Email: {email}")

y -= lh

c.drawString(50, y, f"Phone: {phone}")

y -= lh

c.drawString(50, y, f"LinkedIn: {linkedin}")

y -= lh * 2

c.setFont("Helvetica-Bold", 14)

c.drawString(50, y, "🎯 Objective")

y -= lh

c.setFont("Helvetica", 11)

for line in objective.split('\n'):

    c.drawString(50, y, line)

    y -= lh

y -= 10

c.setFont("Helvetica-Bold", 14)

c.drawString(50, y, "🛠 Skills")

y -= lh

for skill in skills.split(','):

    c.drawString(50, y, f"- {skill.strip()}")


    y -= lh

y -= 10

c.setFont("Helvetica-Bold", 14)

c.drawString(50, y, "📁 Projects")

y -= lh

for proj in projects.split('\n'):

    c.drawString(50, y, proj)
```

```
y -= lh

y -= 10
c.setFont("Helvetica-Bold", 14)
c.drawString(50, y, "🎓 Education")

y -= lh
for edu in education.split('\n'):
    c.drawString(50, y, edu)
    y -= lh

c.showPage()
c.save()

# Handle PDF Generation
if final_submit:
    buffer = BytesIO()
    image_data = None

    if profile_pic:
        image = Image.open(profile_pic)
        image = image.resize((60, 60))
        image_data = BytesIO()
        image.save(image_data, format="PNG")
        image_data.seek(0)

    generate_pdf(buffer, image_data)
    buffer.seek(0)
    st.success("🎉 Resume PDF ready!")
    st.download_button("⬇️ Download Resume", buffer, "resume.pdf", "application/pdf")

output:
```

The screenshot shows the initial step of creating a resume. At the top, there's a placeholder for an OpenAI API key. Below it, the "Personal Info" section is displayed, containing fields for Full Name (E.Aishwarya), Job Title (Software Developer), Company (Fresher), and Email (aish@email.com).

The screenshot shows the addition of contact details. A new section titled "Personal Info" has been expanded, showing fields for Email (aish@email.com), Phone (+91 9876543210), LinkedIn URL (<https://linkedin.com/in/aish>), and a "Upload Profile Picture" field where a file named "profile1.jpeg" has been uploaded.

The screenshot shows a resume builder application interface. At the top, there is a navigation bar with icons for file operations like back, forward, and search, followed by the URL "localhost:8503". Below the navigation bar, there are three main sections:

- Skills**: A section titled "Skills (comma-separated)" containing the text "Python, Java, Machine Learning".
- Projects**: A section titled "Projects" containing a single item: "AI Driven Job Recommendation System" with a detailed description: "An intelligent system that recommends relevant job opportunities based on the user's resume, skills, experience, and preferences".
- Education**: A section titled "Education" containing the text "B.Tech in CSE, VTU University".

At the bottom of the page, there is a button labeled "Generate Objective using GenAI". The status bar at the bottom of the browser window shows the weather as "36°C Sunny", the date and time as "08-04-2025 02:40 PM", and system information like "ENG IN".

This screenshot shows the same resume builder application, but the "Skills" section is now labeled "- Chatbot". The "Education" section remains the same. Below the "Education" section, there is a new section titled "Career Objective" containing the text "To obtain a challenging position in a reputable organization." At the bottom of the page, there is a button labeled "Generate Resume PDF". The status bar at the bottom of the browser window shows the weather as "36°C Sunny", the date and time as "08-04-2025 02:56 PM", and system information like "ENG IN".



