

# Project 33: Blog Post Generator

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## Description:

This tool generates complete blog posts based on a topic, audience, and desired tone. Whether it's technical, motivational, informative, or casual—it produces well-structured blog content that's ready to post or personalize.

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## blog\_post\_generator.py

```
import openai
import os
import gradio as gr

# Load OpenAI API Key
openai.api_key = os.getenv("OPENAI_API_KEY")

# Function to generate a blog post
def generate_blog(topic, audience, tone):
    # System message to guide assistant as a blog writer
    messages = [
        {
            "role": "system",
            "content": (
                f"You are a skilled blog writer. Write a complete blog post ab  

                Include an engaging introduction, 2-3 key sections, and a cor
            )
        },
        {
            "role": "user",
            "content": f"Blog topic: {topic}"
        }
    ]

    try:
        # Send request to OpenAI API
        response = openai.ChatCompletion.create(
            model="gpt-3.5-turbo",
            messages=messages
```

```

    )

    # Return blog content
    return response["choices"][0]["message"]["content"].strip()

except Exception as e:
    # Return error
    return f"Error: {str(e)}"

# Gradio interface for blog generation
iface = gr.Interface(
    fn=generate_blog,                                # Blog generator f
    inputs=[
        gr.Textbox(label="Topic (e.g., AI in Education)"),
        gr.Textbox(label="Target Audience (e.g., high school students, startup
        gr.Radio(["informative", "motivational", "casual", "technical"], label
    ],
    outputs="text",                                    # Blog post result
    title="📝 Blog Post Generator",
    description="Enter a blog topic, your audience, and tone—and I'll generate
)

# Launch the app
iface.launch()

```