

app.py

```
from flask import Flask, request, render_template
import openai
import os

app = Flask(__name__)

# Set your OpenAI API key (use environment variable for security)
openai.api_key = os.getenv("OPENAI_API_KEY")

@app.route("/", methods=["GET", "POST"])
def generate_ad():
    ad_text = ""
    if request.method == "POST":
        content = request.form["content"]
        prompt = f"Create a creative and engaging advertisement for the following product or service:\n\n{content}\n\nAd:"

        response = openai.ChatCompletion.create(
            model="gpt-4",
            messages=[
                {"role": "system", "content": "You are a creative ad copywriter."},
                {"role": "user", "content": prompt}
            ],
            max_tokens=150
        )

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

    return render_template("index.html", ad_text=ad_text)

if __name__ == "__main__":
    app.run(host="0.0.0.0", port=5000)
```

templates/index.html

```
<!DOCTYPE html>
<html>
<head>
    <title>AI Ad Maker</title>
</head>
<body>
    <h1>AI Ad Maker</h1>
    <form method="post">
        <label for="content">Describe your product or service:</label><br>
        <textarea name="content" rows="6" cols="50" required></textarea><br><br>
        <input type="submit" value="Generate Ad">
    </form>

    {% if ad_text %}
        <h2>Generated Ad:</h2>
        <p>{{ ad_text }}</p>
```

```
        {% endif %}  
</body>  
</html>
```

requirements.txt

```
flask  
openai
```

Procfile

```
web: python app.py
```

README.md

```
# AI Ad Maker
```

This is a simple AI-powered ad generator built using Flask and OpenAI's GPT-4.

```
## Run Locally
```

```
```bash  
pip install -r requirements.txt
export OPENAI_API_KEY=your-key-here
python app.py
```
```

```
## Deploy on Render
```

1. Connect GitHub repo.
2. Add `OPENAI_API_KEY` in environment variables.
3. Set build command: `pip install -r requirements.txt`
4. Start command: `python app.py`