



Project Showcase: Simple Python LLM App



**Part of Remoder AI Engineer Upskilling
Program**



***From code → container → working AI
API.***



Remoder Inc. - remoder.com



The Problem



✗ Most engineers struggle with:

- **Running AI locally** 
- **Deploying models with APIs** 
- **Packaging everything consistently** 



The Solution



✓ Our project:

- **FastAPI + DistilGPT2 + Docker**
- **One-click deployable AI API**
- **Generates text on demand** 



What This App Does



Deploys a lightweight LLM (DistilGPT2)



Accepts user input via /generate/ endpoint



Returns AI-generated text in JSON



Acts as a mini chatbot or text generator



How It Works



1. 🐍 Python + ⚡ FastAPI = backend server
2. 🙌 HuggingFace Transformers loads LLM
3. 🐳 Docker wraps the entire app
4. 🧪 Test with curl or Postman



Tech Stack



PyTorch 🔥 → ML engine

Transformers 🧠 → Pre-trained models

FastAPI ⚡ → Modern API framework

Uvicorn 🦄 → Super-fast ASGI server

Docker 🐳 → Containerized deployment

Demo Example



Input (via `curl`):

```
"The future of AI is"
```



Output (API Response):

```
"The future of AI is always interesting. This is particularly true when it comes  
to the technology, and the challenges with AI are endless and the possibilities.  
If artificial intelligence wins, humanity will find itself with a more  
personalized version of our thinking."
```

```
● → simple-llm git:(main) x curl -X POST "http://localhost:8000/generate/" \  
  -H "Content-Type: application/json" \  
  -d '{"text": "The future of AI is"}'
```

```
{"generated_text": "The future of AI is always interesting. This is particularly  
true when it comes to the technology, and the challenges with AI are endless a  
nd the possibilities. If artificial intelligence wins, humanity will find itsel  
f with a more personalized version of our thinking.\n\n"}%
```



Why It's Cool



✓ Simple & reproducible

🚀 Quick AI deployment demo

↺↻ Extendable to bigger LLMs

🎯 Great for client demos & education



Skills Learned



 Python backend with FastAPI

 Docker containerization

 Serving LLMs as REST APIs

 API testing with `curl` & Postman



Wrap Up



 *This project transforms a simple script → a deployable AI API.*

 **Takeaway:**

"The future belongs to those who don't just use AI — they build with it & deploy it."

 [#AI #Docker #FastAPI #LLM #Remoder](#)



Questions?



Contact us & come learn with us 🙄(◉_◉)◉

- <https://www.linkedin.com/company/remoder>
- <https://www.linkedin.com/in/sanjars/>
- <https://www.youtube.com/@remoder-inc>
- remoder.com
- **Full walkthrough of this project is available on our “Master AI Deployment” course**