# ChatGPT

# Project: Vault CLI Logger to AI-Powered Blog Generator

#### Goal

Automate the process of recording command-line (CLI) sessions involving Vault or similar tools, clean the session logs, and generate human-readable blog posts using an LLM (LLaMA 3 via Ollama).

#### **Completed Steps**

- 1. Session Logging Script ( logger\_common.py )
  - **OS Detection** using platform.system()
  - · Windows:
  - Uses Start-Transcript in a new PowerShell session
  - Appends logs with timestamped filenames: vault-session-windows\_<timestamp>.log
  - · Linux/macOS:
  - Uses | script | command to capture session
  - Output saved as vault-session-unix\_<timestamp>.log

```
# logger_common.py
import platform
import subprocess
import os
import datetime
def run_logger():
   os_type = platform.system()
    timestamp = datetime.datetime.now().strftime("%Y-%m-%d_%H-%M-%S")
    if os_type == "Windows":
        print(" Detected Windows - using PowerShell Transcript")
        log_path = os.path.abspath(f"vault-session-windows_{timestamp}.log")
        print("\n A new PowerShell window will open.")
        print("Run your Vault or CLI commands there.")
        print("Then manually type `Stop-Transcript` to end recording.\n")
        subprocess.call([
            "powershell.exe",
```

```
"-NoExit",
    "-Command",
    f"Start-Transcript -Path '{log_path}' -Force"
])

print(f"\n Transcript will be saved to: {log_path}")

else:
    print(" Detected Unix/Linux/macOS - using `script` command")
    log_path = os.path.abspath(f"vault-session-unix_{timestamp}.log")
    print(f" Type your commands. Type `exit` to finish logging.\n")
    subprocess.call(["script", "-f", log_path])
    print(f"\n Session saved to: {log_path}")

if __name__ == "__main__":
    run_logger()
```

```
py logger_common.py # Starts appropriate logger based on OS
```

### 2. Pre-processing Script (preprocess\_log.py)

- Finds the **latest session log** from the logger/directory.
- Removes transcript boilerplate and timestamps.
- Saves cleaned version to ../cleaned-log.txt

```
# preprocess_log.py
import re
import os
import glob
def find_latest_log(log_dir="../logger", pattern="vault-session-*.log"):
   files = glob.glob(os.path.join(log_dir, pattern))
    if not files:
        print(" No session logs found.")
        return None
   latest = max(files, key=os.path.getctime)
   print(f" Found latest log: {latest}")
   return latest
def clean_log(input_file, output_file="../cleaned-log.txt"):
   with open(input_file, "r", encoding="utf-8", errors="ignore") as f:
        lines = f.readlines()
   clean_lines = []
```

```
py preprocess_log.py
```

### 3. AI-Powered Blog Generation (generate\_blog.py)

- Loads cleaned-log.txt
- Formats a conversational, well-structured blog prompt
- Sends prompt to **LLaMA3** via 011amaLLM (new recommended package)
- Saves output as vault\_article.md

```
# generate_blog.py
from langchain_community.llms import Ollama
from langchain.prompts import PromptTemplate
import os

def load_log(path="../cleaned-log.txt"):
    with open(path, "r", encoding="utf-8") as f:
        return f.read()

def generate_blog_from_log(log_text):
    prompt_template = PromptTemplate.from_template("""
You are a senior DevOps engineer and technical writer.

Based on the terminal session below, generate a highly structured and informative blog post in markdown format.
```

```
Be clear, precise, and explain each command with short code comments. Use a tone
that's beginner-friendly but technically correct. Add markdown formatting where
appropriate. Use emoji for sections like Success, Errors, and
feels natural.
SESSION LOG:
{log_text}
BLOG STRUCTURE:
# Title
## Introduction
## Commands and Explanations (Use code blocks + bullet points)
## Common Errors and Fixes (if any)
## Key Learnings
## Conclusion
""")
    11m = Ollama(model="llama3")
    prompt = prompt template.format(log text=log text)
    return llm.invoke(prompt)
if name == " main ":
    session log = load log()
    blog = generate_blog_from_log(session_log)
    os.makedirs("../output/blog_posts", exist_ok=True)
    with open("../output/blog_posts/vault_article.md", "w", encoding="utf-8") as
f:
        f.write(blog)
    print(" Blog saved to output/blog_posts/vault_article.md")
py generate_blog.py
     Warning: Use | OllamaLLM | from | langchain_ollama | as the old | Ollama | class is
   deprecated.
```

### **Directory Structure**

```
cli2content/
├─ logger/
│ ├─ logger_common.py
│ ├─ vault-session-windows_<timestamp>.log
│ └─ ...
```

#### **Future Plans**

-

## **GitHub Copilot Prompt (to recreate this project)**

"Build a complete DevOps content assistant using Python. It should:

- 1. Log terminal sessions across platforms (Windows, Linux, macOS)
- 2. Clean noisy log lines using regex
- 3. Generate markdown blog posts using LLaMA3 via OllamaLLM
- 4. Use LangChain for prompting
- 5. Structure project with logger/, processor/, agent/, and output/ folders."

Let me know if you want this published as a GitHub README or visual architecture.