

File Edit Selection View Go Run ...

load_csv_to_mongo.py query_with_llm.py llm_query_interface.py llm_mongo_query_tool.py run_query_and_save.py

EXPLORER

OPEN EDITORS

- load_csv_to_mongo.py
- query_with_llm.py
- llm_query_interface.py
- llm_mongo_query_tool.py
- run_query_and_save.py
- sample_products.csv

VSCODE

- cyper.ipynb
- encoded_columns.pkl
- generate_query.py
- gopro.ipynb
- goproject.ipynb
- landt.ipynb
- llm_mongo_query_tool.py
- llm_query_interface.py
- load_csv_to_mongo.py
- output.txt
- Queries_generated.txt
- query_with_llm.py
- random_forest_model.pkl
- rednew1.ipynb
- reviewf.ipynb
- run_query_and_save.py
- run1.ipynb
- sample_products.csv

OUTLINE

TIMELINE

query_with_llm.py > generate_mongo_query

```
11 def generate_mongo_query(user_input):
12     """
13     Return ONLY the MongoDB query dictionary (omit 'collection.find' or 'db.collection.find').
14     Natural language: {user_input}
15     MongoDB query:
16     """
17     response = client.chat.completions.create(
18         model="meta-llama/Llama-4-Maverick-17B-128E-Instruct-FP8", # Your chosen model
19         messages=[{"role": "user", "content": prompt}],
20         max_tokens=256,
21         temperature=0.5,
22     )
23     mongo_query = response.choices[0].message.content.strip()
24     log_query(user_input, mongo_query)
25     return mongo_query
26
27 # Logging function
28 def log_query(question, query):
29     with open("Queries_generated.txt", "a", encoding="utf-8") as f:
30         f.write(f"Q: {question}\nQuery: {query}\n\n")
31
32
33
34
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Python + - ... ^ x

File "F:\VSCODE\.venv\lib\site-packages\together\abstract\api_requestor.py", line 635, in interpret_response
File "F:\VSCODE\.venv\lib\site-packages\together\abstract\api_requestor.py", line 707, in interpret_response_line
raise self.handle_error_response(resp, rcode, stream_error=stream)
together.error.AuthenticationError: Error code: 401 - {"message": "Invalid API key provided. You can find your API key at https://api.together.xyz/settings/api-keys.", "type": "invalid_request_error", "code": "invalid_api_key"}
PS F:\VSCODE> & f:/VSCODE/.venv/Scripts/python.exe f:/VSCODE/llm_mongo_query_tool.py
Welcome to the LLM MongoDB Query Tool
You can ask natural language questions about your product data.

Ln 26, Col 62 Spaces: 4 UTF-8 CRLF {} Python Auto-Import Completions: true 3.10.11 (.venv: venv)

Type here to search

30°C 23:06 24-05-2025