1. 不要動到 source code

2. 創建 uv 環境 更改解釋器路徑 uv 的 python

3. 使用 vanna 的框架 pip install "vanna[chormadb]" "vanna[ollama]" "vanna[openai]"

- 進到我的資料夾

  cd "專案名稱"

- 初始化專案(如果還沒有 pyproject.toml)

  uv init

- 建立虛擬環境

  uv venv

- 啟用虛擬環境

  (bash) source .venv/Scripts/activate

  (powershell) .venv/Scripts/activate

- 安裝套件

  uv add pandas

- 停用虛擬環境

  Deactivate

LLM 調用路徑 / API

[Qwen2.5-VL-32B]

model_name = Qwen/Qwen2.5-VL-32B-Instruct

model_url = http://10.13.18.40:2266/vl

[GPT-OSS-20B]

model_name = openai/gpt-oss-20b

model_url = http://10.13.18.40:8964/v1

[DeepSeek-0528]

model_name = deepseek-ai/DeepSeek-R1-0528-Qwen3-8B

model_url = http://10.13.18.40:55700/v1

[InternVL3.5-38B]

model_name = OpenGVLab/InternVL3_5-38B

model_url = http://10.13.18.40:3036/v1

向量資料庫

name = Milvus

url = http://10.13.18.40:19530

embedding model

model_name = acge_text_embedding

api_url = http://10.13.18.40:14514/embed

model_name = Conan-embedding-v1

api_url= http://10.13.18.40:14514/embed

model_name = jina-embeddings-v3

api_url = http://10.13.18.40:14514/embed

連線資訊

```
# "ALS2.0 紀錄": DatabaseConfig(
#         server ="UTCSNEDCLSNR02",
#         username="ALS2.0_readonly",
#         password="5rdxZSE$",
#         database="SN_ALMS"
# )
"ALS2.0 紀錄": DatabaseConfig(
        server="10.22.66.37",
        username="ALS2.0_Admin_readonly",
        password="5rdxZSE$",
        database="YM_ALMS"
)
```