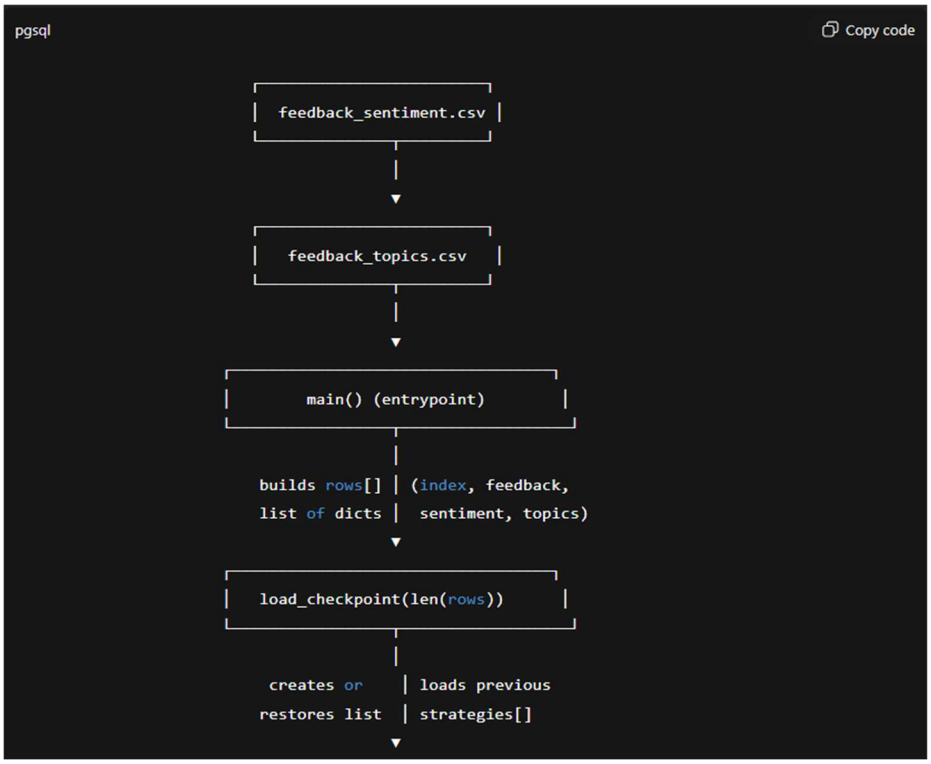
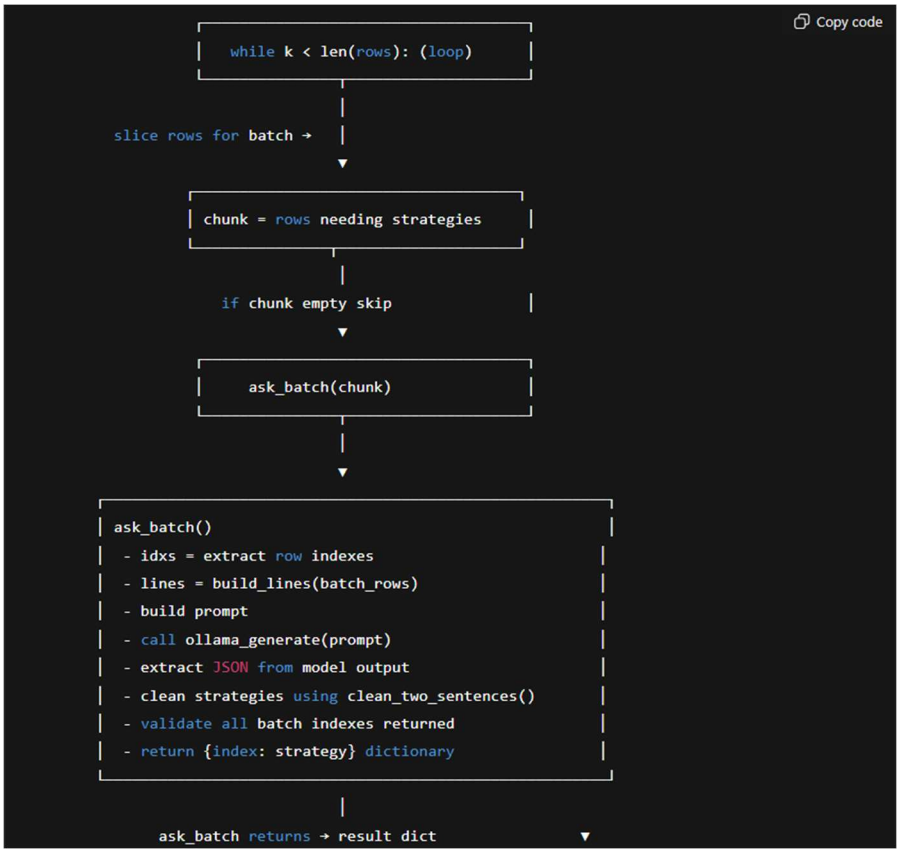
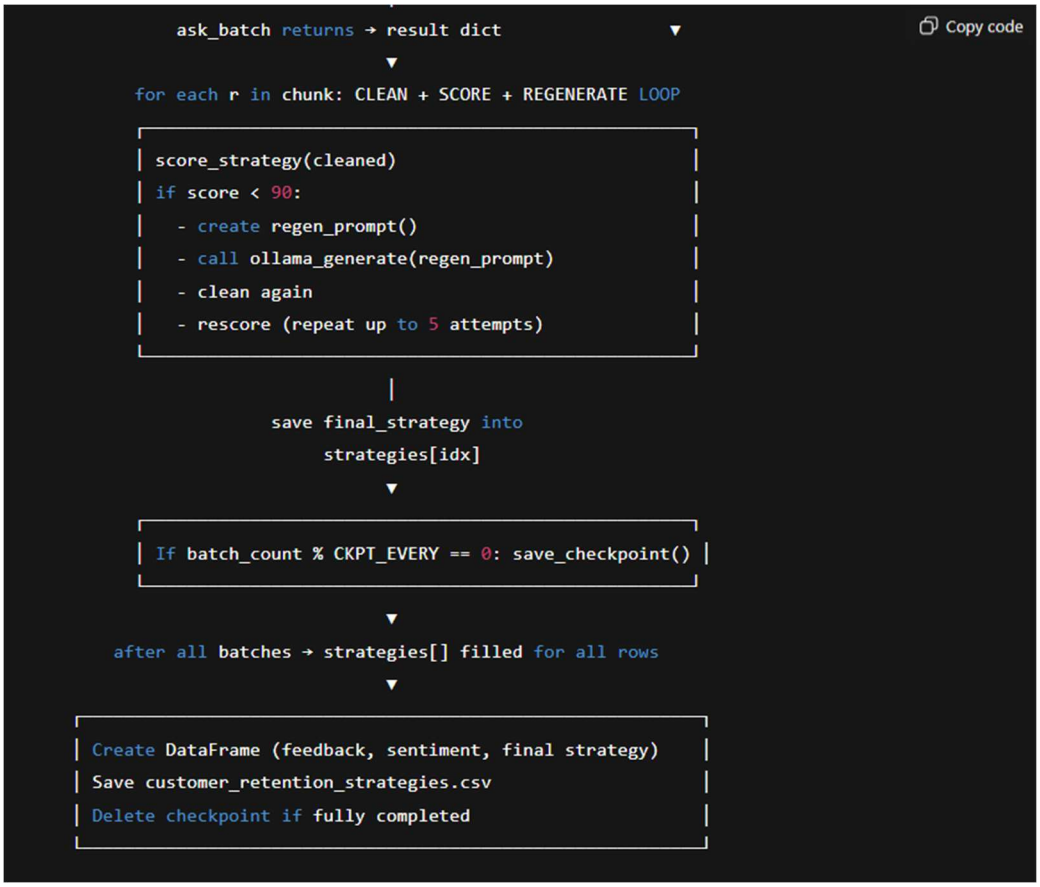
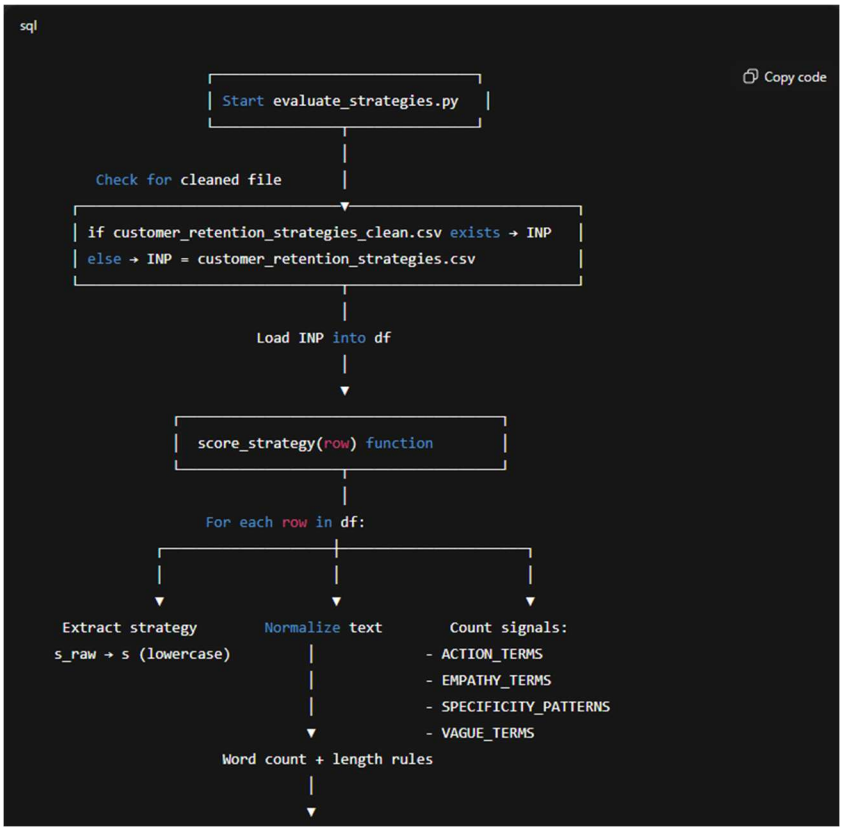
Strategy_Generator.py----High Level Workflow

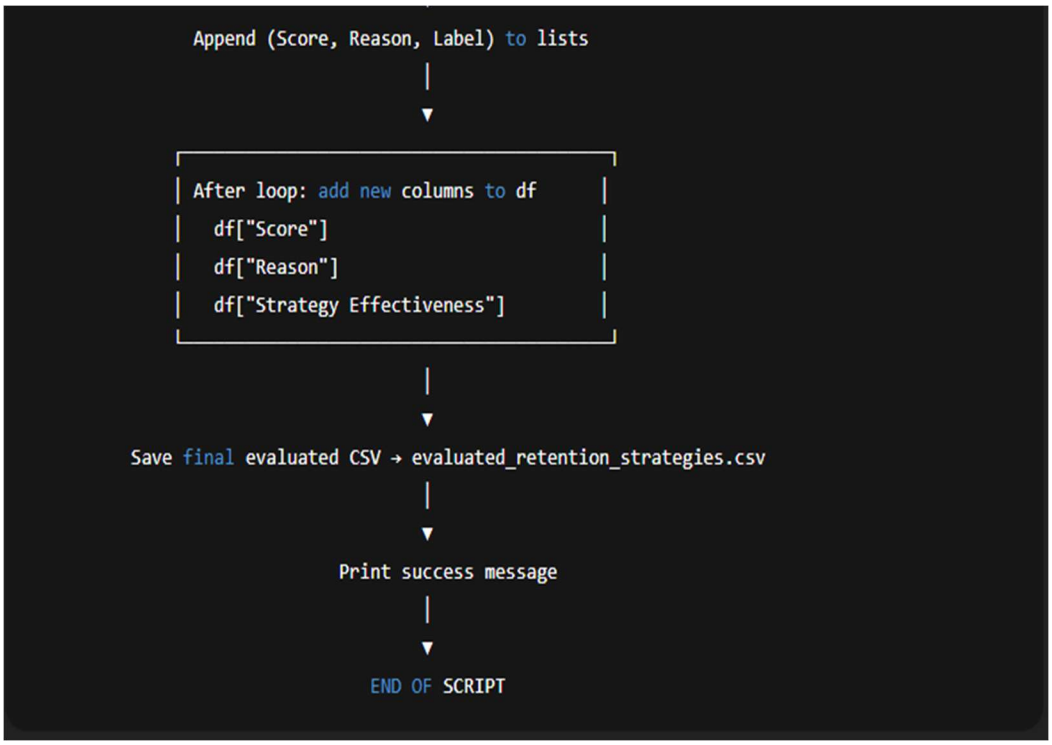




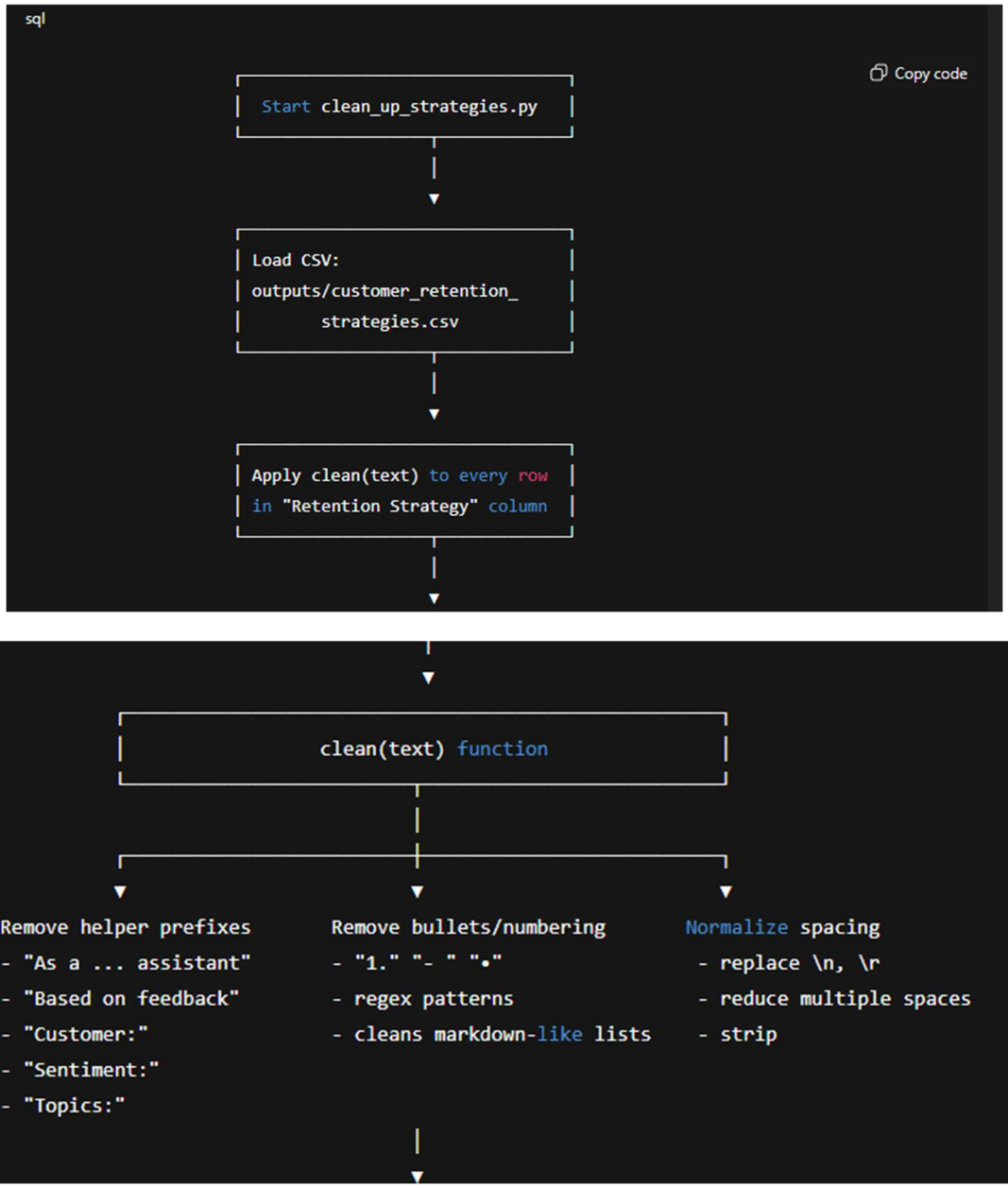

Copy code
ask_batch returns → result dict
for each r in chunk: CLEAN + SCORE + REGENERATE LOOP
score_strategy(cleaned)
if score < 90:
- create regen_prompt()
- call ollama_generate(regen_prompt)
- clean again
- rescore (repeat up to 5 attempts)
save final_strategy into
strategies[idx]
If batch_count % CKPT_EVERY == 0: save_checkpoint()
after all batches → strategies[] filled for all rows
Create DataFrame (feedback, sentiment, final strategy)
Save customer_retention_strategies.csv
Delete checkpoint if fully completed

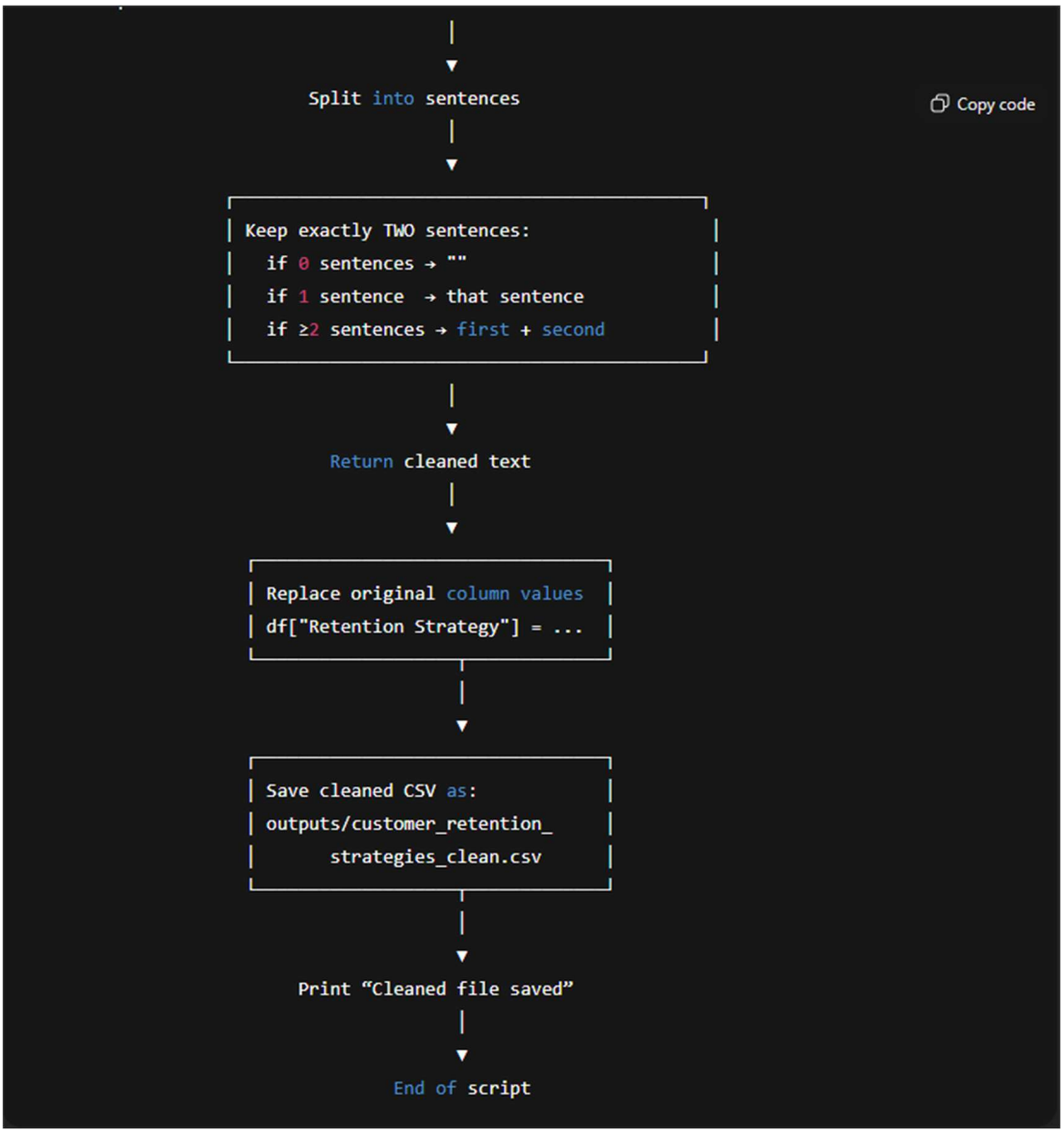
Evaluate_Strategy.py High Level Workflow




Append (Score, Reason, Label) to lists
After loop: add new columns to df
df["Score"]
df["Reason"]
df["Strategy Effectiveness"]
Save final evaluated CSV → evaluated_retention_strategies.csv
Print success message
END OF SCRIPT

Clean_Strategy.py High Level Workflow




Split into sentences
Copy code
Keep exactly TWO sentences:
if 0 sentences → ""
if 1 sentence → that sentence
if ≥2 sentences → first + second
Return cleaned text
Replace original column values
df["Retention Strategy"] = ...
Save cleaned CSV as:
outputs/customer_retention_
strategies_clean.csv
Print "Cleaned file saved"
End of script

Ollama_Utils.py High level workflow