

AI Skill-Up Assignment – JITHU  
(Banking & Compliance RAG – Pipeline & SQL)

ASSIGNMENT A: RAG Pipeline V1 (QA)

- Ingest KYC policy, AML typologies, risk rules.
- Build end-to-end QA pipeline.
- Evaluate 20 questions.
- Label outputs: correct / partial / hallucinated.
- Summarize failure patterns.

ASSIGNMENT B: SQL Generation + Guardrails

- Build SQL generator using retrieved schema/rules.
- Validate table & column names.
- Re-prompt on validation errors.
- Execute SQL on sample DB.
- Add guardrail: “Not enough information to safely generate SQL.”

Deliverables:

banking\_rag\_qa.py  
compliance\_rag\_evaluation.csv  
summary\_of\_findings.md  
sql\_rag\_pipeline.py  
sql\_rag\_eval\_jithu.csv  
pipeline\_architecture.md