Hi Candidate,

Thank you for applying to the AI/ML Developer role. As the next step in our process, we’d like you to complete a short **2-hour take-home assignment**. This will help us evaluate your ability to work with data and build small AI agents.

**📂 Files Provided**

Please download all required files here:

* sales\_2024Q3.csv
* support\_tickets\_2024Q3.csv
* rag\_eval\_questions.csv
* README.txt

Docs for the RAG agent:

* pricing.md
* refund\_policy.md
* product\_specs\_widget.md
* onboarding\_guide.md
* troubleshooting.md
* release\_notes.md

**📝 Assignment Details**

**Part A – Data Analysis (~60 minutes)**

1. Analyze sales\_2024Q3.csv and support\_tickets\_2024Q3.csv.
2. Answer the specific questions listed in the README.
3. Submit:
   * Code in analysis.ipynb or analysis.py
   * 1–2 plots
   * A short INSIGHTS.md (<250 words) explaining your findings.

**Part B – Mini AI Agent (~60 minutes)**

1. Build a retrieval-augmented QA agent over the docs provided.
2. It should:
   * Ingest all docs
   * Create embeddings + vector index
   * Retrieve relevant chunks and use an LLM to answer queries
   * Cite which file(s) were used in answers
3. Test against rag\_eval\_questions.csv (6 queries).
4. Submit:
   * Code in an agent/ folder
   * A RUN.md with setup/run instructions
   * Optional: a short Loom demo

**📦 Deliverables**

* Public GitHub repo link (preferred) or a zipped folder.
* Deadline: Please return within **48 hours** of receiving this email.
* Estimated effort: ~2 hours. Please don’t over-engineer; we value clean, working solutions over polish.

**✅ Evaluation Criteria**

* Correctness and clarity of analysis
* Quality of insights (not just plots)
* Working retrieval agent with grounded answers
* Clean, minimal code with clear instructions
* Professional repo structure

If you have any questions, feel free to reply. Looking forward to your submission.