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Take-Home Assignment · NLP Engineer 07/2025

Build an Automated “Judge” for RAG Answers

Overview

The task is to build an **automated evaluator (“Judge”)** that inspects the assistant answers in `rag_evaluation_07_2025.csv` and assigns quality scores.

You decide **which evaluation dimensions matter**, how to measure them, and how to combine them into an overall judgment.

Objectives (high-level)

1. Invent your own evaluation dimensions

Define and justify the aspects of quality you think are important for a production RAG assistant.

2. Implement the Judge

*Write **Python** code that loads the CSV, evaluates each answer along your dimensions, and produces both per-row scores and aggregate statistics. Feel*

free to use any suitable open-source libraries when you implement the judge.

3. Models/Algorithms

*Your Judge may rely on LLM(s) or other algorithms. As the LLM provider, Mistral's free tier (<https://auth.mistral.ai>) is a zero-cost option if you need one. **Feel free** to use other providers.*

4. Report the findings

Generate a human-friendly report in Markdown that highlights strengths, weaknesses, and notable failure cases in the dataset.

Dataset

`rag_evaluation_07_2025.csv` can be found [here](#)

Columns:

Column	Description
<code>Current User Question</code>	Latest user utterance
<code>Conversation History</code>	Prior turns (newline-delimited)
<code>Fragment Texts</code>	Passages retrieved by the retriever
<code>Assistant Answer</code>	Assistant's response to be judged

Mandatory requirements

#	Requirement
1	Dimension schema: In the README, provide details that list each dimension, its possible score range, and how it contributes to the final composite score.
2	Automated scoring: Implement code that assigns scores <i>without human intervention</i> . Every row in the CSV must receive a value for every dimension.
3	CLI / notebook entry point: Running <code>python main.py --csv rag_evaluation_07_2025.csv</code> must execute the full evaluation and write a timestamped report to <code>reports/</code> . At a minimum, export the graded CSV along with aggregate statistics for the dataset.

#	Requirement
4	Determinism controls: Expose temperature and random-seed flags so the Judge can run deterministically.
5	Documentation: Include clear setup and usage instructions, plus the rationale behind your chosen dimensions and metrics.

Deliverables

Item	Where / Format
Code & data	Public GitHub repo
README	Setup, usage, model-switch guide, description of your dimensions
Report sample	Committed in <code>reports/</code>

Submission

- **Deadline:** within **7 calendar days** of receiving the assignment.
- Email the GitHub link (should be a public repo) to: `nlp-team@moveo.ai` with subject **"NLP take-home - <Your Name>"**.

Good luck - we're excited to see how you design your Judge!