AMD AI Sprint Hackathon 2025

Track: AAIPL – Q-agent vs A-agent
Team Folder: AAIPL_129_212_191_5

Github link : https://github.com/Devidasblr/AMD-Hackathon

Team Composition

- Q-agent (Question Generator)
 - Model Used: Qwen/Qwen1.5-4B
 - Purpose: Generate logic-based MCQs (multiple-choice questions) with options and correct answers.
- A-agent (Answer Generator)
 - Model Used: Qwen/Qwen1.5-4B
 - Purpose: Given a question, choose the correct option and explain the reasoning.

Design Highlights

- Question Agent (q_agent.py)
 - Prompt Engineering:
 - Used system prompt to act as a logic-based MCQ creator.
 - Ensured the output is structured with question, options, and answer.
 - Inference Pipeline:
 - Supports --num_questions as CLI argument.
 - Controlled max_tokens, temperature, etc., via ggen.yaml.

o Filters invalid formats before saving to questions.json.

Answer Agent (a_agent.py)

- Prompting Strategy:
 - Model instructed to act as a logical MCQ solver.
 - Output is expected in JSON with answer and explanation.
- Processing:
 - Reads from questions.json.
 - Stores responses in answers.json.

Folder Structure

Name Compliance Checklist

• V No RAG or retrieval-based modules

• V Only Qwen1.5-4B used for both agents



⚠ Notes

- Models and tokenizer loaded via Hugging Face Hub.
- Manual login/token used to authenticate access.
- All YAML-configured parameters handled during inference.