tether.

Job Title	DevOps Engineer
Department	Tether Data

Task

Your task is to design a production-quality workflow that covers local development, automated testing, and cross-platform builds, with artifacts published to GitHub Container Registry (GHCR) and GitHub releases for the MLC-LLM codebase.

Repository:

- https://github.com/mlc-ai/mlc-llm
- Build instructions:
  - https://llm.mlc.ai/docs/install/mlc_llm.html#option-2-build-from-source

Deliverables:

1. Multipurpose Docker Image
   - A single Docker image that serves as both:
     - Development environment (interactive shell, source mounted, dev tools installed)
     - Build environment (non-interactive entrypoint for compiling and packaging)
   - The image must be built and pushed automatically to GHCR via your CI pipeline.
2. Automated Tests
   - Tests must run (and gate further stages) in your CI workflow.
3. GitHub Actions CI/CD Pipeline
   - A build pipeline that follows test-driven deployment practices and builds the MLC-LLM python package, and publishes the wheels as a GitHub release for the following platforms:
     - Linux (x64)
     - Windows (x64)
4. Documentation
   - Write extensive documentation with information on prerequisites, dependencies and how to build and run the package & environment.
   - Also document how the GitHub Actions workflow is structured, including triggers, jobs, and publishing steps.

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Submission Steps

Once completed, please upload the repo on GitHub and share access with the following users:

- subashsn
- chetasr
- Ignaciolarranaga
- tamer-hassan-tether
- BautistaTether

Please share an email regarding the same with a link to the repo(s) you have submitted.

Best Practices

Pipelines:

- Follow DRY principles (Don't Repeat Yourself) wherever possible to keep code structure modular and reusable.

Documentation:

- Use clear and concise language; do not add filler text to expand on the content.
- Use code snippets and examples wherever possible.
- Make sure to have uniform formatting across the documentation.
- Use diagrams / visuals wherever possible to illustrate flows and concepts.

Evaluation Criteria

- Pipeline readability and structure.
- Best practices for Docker containers.
- Documentation quality (clear to read and understand).