

# MLOps Deployment - Developer & Gatekeeper Role Report



Date: 2/19/2025



Bootcamp: Ironhack Bootcamp: Data Science and Machine Learning

## Team Members:

- **Developer (First Round):** Ginosca Alejandro Dávila
- **Gatekeeper (First Round):** Natanael

## Objective:

The goal of this exercise was to practice **MLOps deployment workflow**, including **version control, collaboration using GitHub, and reviewing each other's work** in a structured development cycle.

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## 1 First Round - Developer Role (Ginosca)

### Tasks Completed:

✓ Created the repository on GitHub: [lab-mlops-deploy-prod-to-dev](#)

✓ Set up the project folder with the necessary files:

- `quadratic_equation_solver_project/`
- `requirements.txt`
- `.gitignore`
- `README.md`

✓ Created a virtual environment (`venv`) and installed dependencies

✓ Initialized a Git repository and pushed the project to GitHub

✓ Created a new branch `dev-branch` and pushed it

✓ Added an extra file: `"quadratic_equation_solver (original).ipynb"` to `dev-branch`

✓ Created a Pull Request (PR) from `dev-branch` to `main`

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## Challenges Faced & Solutions:

Challenge	Solution
At first, I was unsure if I needed to push the <code>venv/</code> folder to GitHub.	I checked the instructions and confirmed that <code>venv/</code> should be excluded using <code>.gitignore</code> .
When adding files to Git, there was a warning about <b>"LF will be replaced by CRLF"</b> .	This is a common line-ending issue on Windows but does not affect functionality. It was ignored.
The Ironhack platform required a <b>Pull Request URL</b> , but initially, I only submitted the repository link.	Added an additional file and re-created the PR, then submitted the correct PR URL.

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## 2 First Round - Gatekeeper Role (Natanael)

### Tasks Completed:

- ✓ Reviewed the Pull Request and confirmed all files were correctly included
  - ✓ Merged the PR into `main`
  - ✓ Pulled the latest changes from the remote repository
  - ✓ Set up the virtual environment (`venv`) and installed dependencies
  - ✓ Ran the project locally and tested functionality
  - ✓ Provided feedback on the setup and testing
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## Challenges Faced & Solutions:

Challenge	Solution
No PR was created at first since <code>dev-branch</code> and <code>main</code> were identical.	Instead of merging, we continued with the Gatekeeper's setup and testing directly.
Dependencies took time to install due to <code>pip</code> downloading packages.	Ensured <code>requirements.txt</code> had the correct dependencies to avoid issues.

Initially, there were no meaningful changes to justify a PR.

The developer added a small update (`quadratic_equation_solver(original).ipynb`) to allow a PR to be created.

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### 3 Next Steps - Swapping Roles

We will now swap roles and repeat the process so that:

- **Natanael becomes the Developer**
- **Ginosca becomes the Gatekeeper**

This will ensure both of us experience both roles.

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### Final Thoughts:

This exercise helped reinforce **GitHub best practices, version control, and structured code review**.

### Key Takeaways:

- ✓ **Clear communication** is essential for smooth collaboration.
- ✓ Using **branches** and **.gitignore** properly prevents unnecessary files from being pushed.
- ✓ **Testing the setup after pulling** is crucial to validate reproducibility.



**We will now repeat the process with the roles swapped!**