# MLOps Deployment from DEV to PROD – Lab Report

## **Participants**

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## **Objective**

The goal of this exercise was to simulate the process of deploying a project from a **development environment (DEV)** to a **production environment (PRD)** using Git and environment management practices. Each participant played both roles—**Developer** and **Gatekeeper**—to ensure hands-on experience from both perspectives.

## **Step-by-Step Process**

## **Step 1: Developer Tasks**

- 1. Project Setup
  - o Created a virtual environment
  - Activate new environment
  - Installed required packages using pip install

```
PS C:\Users\NOURA\Desktop\ironhack\week6\day2> python -m venv venvPS C:\Users\NOURA\Desktop\ironhack\week6\day2> .\venv\Scripts\activate
```

(venv) PS C:\Users\NOURA\Desktop\ironhack\week6\day2> pip install pandas scikit-learn

#### 2. Environment Configuration

(venv) PS C:\Users\NOURA\Desktop\ironhack\week6\day2> pip freeze > requirements.txt

## 3. Git Initialization and Remote Setup:

- ✓ Initialized git
- ✓ added files (excluded venv)
- √ committed
- ✓ pushed to GitHub
- ✓ Pull Request Creation

## **Step 2: Gatekeeper Tasks**

#### 1. Code Review

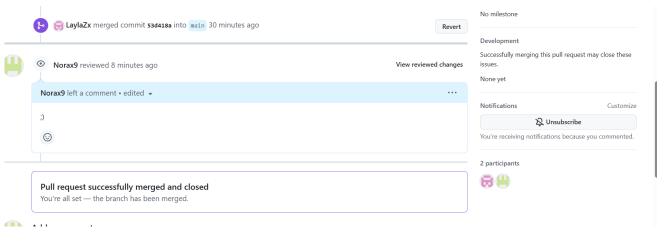
- o Reviewed the PR, checked for code quality and structure.
- Approved and merged the PR if everything looked good.

#### 2. Environment Setup

- Cloned the repo and created a new virtual environment.
- o Installed all dependencies from requirements.txt:

#### 3. Execution

o Ran the project locally to verify it worked without errors.



## Challenge

Took time to properly review GitHub PR process