# Report 4: AI + CI/CD + Testing Report (Integration Phase)

## AI Feature Integration

## CI/CD Pipeline Setup

* **CI/CD Tool**: The project utilizes GitHub Actions for its Continuous Integration and Continuous Delivery pipeline.
* **Pipeline Configuration**: The pipeline is defined in the .github/workflows/dotnet-ci.yml file.
* **Pipeline Steps**:
  + **Build**: The pipeline is configured to build the .NET solution, ensuring all code compiles successfully.
  + **Test**: It includes steps to run automated tests (likely unit tests and potentially integration tests) to verify the correctness and stability of the codebase.
  + **Triggers**: The pipeline is triggered on push events to the main branch and on pull\_request events targeting the main branch. This ensures that all new code and proposed changes are automatically validated.
* **Link to Pipeline Configuration**: The configuration can be found at: .github/workflows/dotnet-ci.yml

## Deployment Workflow

* Explain how the system was deployed to staging or production.
* Include deployment frequency and automation levels.

## Collaboration and Automation

* Describe how team members coordinated CI/CD tasks.
* Mention any automation bots or workflows used.

## Lessons Learned

* Highlight key takeaways from AI integration and automated testing.
* Reflect on what worked and what could be improved.

## Appendix (Optional)

* Include full test logs, model performance charts, or pipeline files if needed.