Report for milestone 6

Requirement:

Goal: ML system integration

Automation of ML pipelines: deployment of a CI/CD pipeline	ZenFlow, GitHub Actions, Jenkins
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The work done for this part revolved around writing a YAML script for automatizing the deployment of my ZenML pipeline with Git Actions:

The process is to simply write a YAML script under a .github/workflows folder that installs the necessary dependencies and executes automatically on push or pull.

The dependencies are in the requirements.txt file.

Ml_ci_cd.yml Script:

```
- name: Install dependencies

run: |

python -m pip install --upgrade pip
pip install -r requirements.txt

- name: Run ZenML Pipeline

run: |

python -m zenml up
python pipeline.ipynb
env:

CASSANDRA_CLUSTER: "localhost"

- name: Shutdown ZenML services
if: always()
run: python -m zenml down

- name: Log Metrics to MLflow
run: |

pip install mlflow
mlflow server --backend-store-uri sqlite:///mlflow.db --default-artifact-root ./mlruns --host
env:

MLFLOW_TRACKING_URI: http://localhost:5000
```