

CI/CD Pipeline (GitHub Actions YAML Snippet)

Below is a sample GitHub Actions YAML snippet for implementing a CI/CD pipeline for the Predictive Analytics project (predicting patient readmission risks or disease outbreaks). This pipeline ensures code testing, dependency installation, and readiness for deployment.

```
name: Healthcare Analytics CI/CD

on:
  push:
    branches: [ "main" ]
  pull_request:
    branches: [ "main" ]

jobs:
  build:
    runs-on: ubuntu-latest

    steps:
      - name: Checkout code
        uses: actions/checkout@v3

      - name: Set up Python
        uses: actions/setup-python@v4
        with:
          python-version: '3.9'

      - name: Install dependencies
        run: |
          python -m pip install --upgrade pip
          pip install -r requirements.txt

      - name: Run tests
        run: pytest tests/

      - name: Lint code
        run: |
          pip install flake8
          flake8 src/
```