# **GitHub Project Redesign - Documentation**

Repository Architecture, Guidelines, and Templates

## **Repository Layout**

object-detection-ai/

- ■■■ .github/
- ■■■ workflows/
- ■■■ ci.yml
- ■■■ release.yml
- ■■■ ISSUE\_TEMPLATE/
- ■■■ bug\_report.md
- ■■■ feature\_request.md
- ■■■ PULL\_REQUEST\_TEMPLATE.md
- ■■■ docs/
- ■■■ src/obidet/
- ■■■ notebooks/
- ■■■ tests/
- **■■■** experiments/
- ■■■ scripts/
- **■■■** models/
- ■■■ data/
- **■■■** examples/
- ■■■ .gitignore
- ■■■ pyproject.toml
- ■■■ README.md
- **■■■** CONTRIBUTING.md
- ■■■ CODE\_OF\_CONDUCT.md
- ■■■ SECURITY.md
- ■■■ CHANGELOG.md
- **■■■** LICENSE
- **■■■** requirements.txt
- ■■■ tox.ini

### **Branching & Commits**

- Branches:
- main (stable)
- develop (integration)
- feature/<name>, hotfix/<name>
- Semantic Versioning: MAJOR.MINOR.PATCH
- Conventional Commits:
- feat, fix, docs, chore, refactor

#### CI/CD

- GitHub Actions: ci.yml for testing, linting, formatting
- release.yml for publishing packages / GitHub releases
- Test matrix: Python 3.8-3.11

#### **Contribution Guidelines**

- 1. Fork repo  $\rightarrow$  branch  $\rightarrow$  PR
- 2. Run linting & tests locally

- 3. Write unit tests for new features
- 4. Use Black for formatting, Flake8 for linting
- 5. Follow PR & issue templates

## **Key Files**

- README.md: Overview, installation, usage, contribution
- LICENSE: MIT or similar
- CONTRIBUTING.md: workflow & coding style
- CODE\_OF\_CONDUCT.md: Contributor Covenant
- SECURITY.md: reporting process
- CHANGELOG.md: version history