

```
1. Create a new branch:
  git checkout -b setup-task
2. Commit 1: Add .gitignore
.gitignore:
  venv/
  __pycache__/
  *.pyc
  .ipynb_checkpoints/
  data/
  *.csv
  git add .gitignore
  git commit -m "init: add .gitignore"
3. Commit 2: Set up venv and requirements.txt
  pip freeze > requirements.txt
  git add requirements.txt
  git commit -m "chore: venv setup"
4. Commit 3: Add GitHub Actions workflow
Create `.github/workflows/ci.yml`:
name: CI
on: [push, pull_request]
```

```
jobs:
 setup:
  runs-on: ubuntu-latest
  steps:
   - uses: actions/checkout@v3
   - name: Set up Python
    uses: actions/setup-python@v4
    with:
      python-version: '3.11'
   - name: Install dependencies
    run: pip install -r requirements.txt
  git add .github/workflows/ci.yml
  git commit -m "ci: add GitHub Actions workflow"
Step 3: README.md
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README.md content:
# Solar Challenge Week 1
## Setup Instructions
```bash
git clone https://github.com/YOUR_USERNAME/solar-challenge-week1.git
cd solar-challenge-week1
python -m venv venv
```

source venv/bin/activate pip install -r requirements.txt ... Step 4: Folder Structure -.vscode/ └─ settings.json — .github/ └─ workflows/ └─ ci.yml - .gitignore — requirements.txt ├─ README.md --- src/ - notebooks/ └─ README.md — tests/ └─ scripts/ init\_.py └─ README.md

Step 5: Merge Pull Request

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- 1. Push branch: git push origin setup-task
- 2. Create PR from `setup-task` to `main` and merge.

Key Performance Indicators (KPIs)

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- Dev Environment Setup Completed
- GitHub Actions CI working
- Folder structure standardized
- Clear README.md for reproduction