

## **Experiment 7**

### **Aim: CI/CD Pipeline with Open Source Tools**

**Objective:** Automate testing, version checks, and deployment using GitHub Actions.

#### **Detailed Steps**

- Create GitHub Actions workflow YAML
- Add test, lint, and build jobs
- Pull data/models with DVC if needed
- Test pipeline on push to `main`

#### **Open-Source Tools**

GitHub Actions, GitLab CI, DVC

#### **Deliverables**

- Workflow YAML
- CI logs/screenshots

#### **Conclusion**

## Experiment 8

### **Aim: Dashboard, Responsible AI Reporting & Final Portfolio**

**Objective:** Build Streamlit/Dash dashboard, write Responsible AI report, and publish final repo.

### **Detailed Steps**

- Develop dashboard for predictions & insights
- Include SHAP plots, metrics, drift checks
- Write Responsible AI checklist (fairness, privacy, consent)
- Publish final code, notebooks, API, and workflow on GitHub

### **Open-Source Tools**

Streamlit, Dash, Markdown, Jupyter, GitHub/GitLab

### **Deliverables**

- Streamlit app link
- Responsible\_AI.md
- Final public repo link

### **Conclusion**

