# **Week 3 Report – Continuous Deployment to Staging**

## **Objectives**

- Establish a **staging environment** for deployment.
- Automate deployment from GitHub to staging after successful builds.

## **Summary of Activities**

#### 1. Staging Platform Selection

- The team evaluated multiple platforms and selected **Render** for backend hosting and **Netlify** for frontend deployment.
- Decision made jointly by Aine Levi, Ssentongo Henry, Tusiime Emmanuel, and Otim Ronald.

#### 2. **Deployment Automation**

- Ssentongo and Aine configured Render webhooks to auto-deploy Django backend on successful GitHub builds.
- Otim Ronald and Tusiime set up Netlify integration for React frontend to autodeploy on main updates.
- Environment variables (API URLs, model paths) were securely added to staging settings.

#### 3. Testing the Staging Environment

- o The staging environment was tested for full request flow:
  - Image upload from frontend
  - API call to backend
  - YOLOv5 inference response displayed
- o Ssentongo Henry verified functionality and documented staging results.

### **Deliverables**

- Live staging deployment of frontend and backend
- Auto-deploy CI/CD pipeline configured
- Updated ClickUp staging-related tasks

#### **Challenges & Future Plans**

Django build time was long due to model loading; optimization was scheduled for Week 5. Next, the team will focus on production deployment and monitoring.