# Weekly Progress Report

**his Week’s Key Achievements**

**1. AWS Account Preparation**

* **Set up and configured the AWS environment needed for future deployment, including creating IAM users and preparing ECR (Elastic Container Registry) repositories for storing Docker images.**

**2. Docker Image Management**

* **Built Docker images for the main project components: the Spring Boot backend, the Python inference service, and the Streamlit front end.**
* **Successfully tagged and pushed these images to AWS ECR for later use.**

**3. Local Service Integration**

* **Successfully integrated and tested the three core services (backend, inference service, and front end) in the local development environment using Docker Compose.**
* **Ensured that the services can communicate with each other, enabling the main workflow from file upload to backend processing and model inference through the web interface.**

**Next Steps**

* **Prepare for deployment to the AWS cloud environment.**
* **Further improve automated workflows and system stability.**
* **Begin preliminary evaluation using real or sample datasets.**