AMITY SCHOOL OF ENGINEERING & TECHNOLOGY

WEEKLY PROGRESS REPORT (WPR)

For the week commencing: 01/09/2025 – 07/09/2025

WPR 7   **Enrollment Number: A41105222180 Program**:

B-Tech CSE   **Student Name: ABHISHEK KUMAR SHARMA**

Faculty Guide's Name: Bhanu Prakash Lohani

Project Title: AI-Powered Smart Farming Assistant

TARGETS SET FOR THE WEEK
1. Develop smart marketplace for buying/selling crops/tools.
2. Add chat assistant UI for Q&A with AI.
3. Integrate weather API (e.g., OpenWeatherMap).
4. Implement notification system (alerts, updates).
5. Refactor code and ensure modular structure**.**

Achievements:

1. Integrated pest detection model using text-based input of symptoms.
2. Developed yield prediction model using historical data and tested locally.
3. Added AI feedback form for user to rate prediction accuracy.
4. Reduced AI API response time by 40% via model optimization.
5. Stored AI interactions in MongoDB for future analysis.

FUTURE WORK PLANS
Focus on testing, bug fixing, and deployment preparation in Week 8.