Part 4: Ethical Reflection (5%)

Project: AI System that Recommends Farm Inputs to Farmers

To ensure my AI system adheres to **ethical AI principles**, I will focus on **fairness, transparency, privacy, and accountability** throughout its development.

1. **Fairness:**
   I will make sure the recommendation model uses **diverse and representative data** from farmers in different regions, farm sizes, and crop types. This will prevent bias that could favor certain farmers or regions over others.

2. **Transparency:**
   The system will clearly explain **why specific inputs are recommended** (e.g., soil test results, weather data, or crop type). Farmers will see the reasoning behind suggestions to build trust and understanding.

3. **Privacy:**
   Farmers' personal and farm data will be **stored securely and anonymized**. I will follow data protection guidelines and only collect information that is necessary for generating useful recommendations.

4. **Accountability:**
   Human experts (agronomists) will regularly **review AI outputs** to ensure recommendations remain safe, accurate, and ethical. Any detected bias or error will trigger a review and model update.

By combining these measures, the system will promote **responsible, transparent, and farmer-centered AI use** that supports sustainable agriculture.