AI-Driven IoT Proposal: Smart Agriculture System

Overview:

This smart agriculture system integrates IoT sensors and AI to optimize crop monitoring and yield prediction.

Sensors Needed:

- Soil Moisture Sensor

- Temperature Sensor

- Humidity Sensor

- Light Sensor

AI Model:

- Model: Random Forest

- Purpose: Predict crop yields based on real-time environmental data.

Data Flow:

1. Sensors collect real-time data from the field.

2. IoT Gateway aggregates and transmits data to the cloud.

3. Cloud storage holds the data for processing.

4. AI model analyzes the data and predicts crop yields.

5. Results are displayed on the farmer's dashboard with actionable insights.