

## **Abstract**

**Project Name: Project Kushora (A Digital Agriculture Solution with Predictive Intelligence for Enhanced Farm Management)**

**Category: Digital Agriculture and Predictive Intelligence**

Project Kushora is a digital agriculture platform integrating Internet of Things (IoT), predictive analytics, satellite imagery, drone surveillance and conversational AI to enhance farm management in different regions. It addresses livestock tracking, crop health monitoring, environmental sustainability and decision support. It features:

### **Livestock Management**

Solar-powered smart collars with GPS and geo-fencing capabilities enabling real-time tracking and overgrazing prevention using predictive analytics.

### **Drone Surveillance**

CNN-based analysis of drone-captured images detects crop diseases and nutrient deficiencies.

### **Satellite Imagery**

Sentinel-2 and Landsat data provide insights on vegetation health, soil moisture, and weather patterns via NDVI analysis.

### **IoT Sensors**

Monitor soil, weather and humidity to optimize irrigation and resource use.

### **Conversational AI**

A Botpress-powered chatbot delivers real-time farming advice. The platform offers a user-friendly dashboard, solar-powered scalability, and cost-effective solutions to boost productivity, sustainability, and food security.

### **User Interface**

Project Kushora

Crop Data Disease Analysis Sensor Monitoring Chat with Kumema Drone Control Satellite Imagery Logout Settings

### Stock Market

Select Stock Exchange: XNYS

Country Code (optional):

**STOCK RECOMMENDATIONS FOR XNYS:**

New York Stock Exchange (NYSE) - Consider blue-chip stocks like AAPL, MSFT for long-term investments. Market conditions appear stable for diversified portfolios. Current P/E ratios suggest fair valuations.

General Advice:

- Diversify across sectors
- Rebalance portfolio quarterly

Fetch Stock Data

Get Recommendations

### Farm News

Fetch News

New crop disease identified. Farmers advised to take precautions.

### Calendar

Mon	Tue	Wed	Thu	Fri	Sat	Sun
18	28	29	30	1	2	3
19	5	6	7	8	9	10
20	12	13	14	15	16	17
						18

### Scientific Calculator