

Smart agriculture support system with AI crop advisory

Dao Van Ngoc

Abstract: In the context of increasingly developing information technology, the application of artificial intelligence (AI) in agriculture has become a trend to enhance production efficiency and meet digital requirements. This topic focuses on building a smart agricultural support system with AI for crop consultation. The goal is to design and deploy a machine learning-based solution to provide optimal advice to farmers on seed selection, planting time, crop care, and harvesting. The research method includes analyzing real-world data, building AI models, and verifying effectiveness through small-scale experiments on farms. The project is expected to make a significant contribution to improving agricultural productivity by minimizing risks and optimizing the production process.

Keywords: artificial intelligence, smart agriculture, AI crop advisory, machine learning, farmers