

Soil Type Detection and Crop Recommendation Using IoT Devices and Machine Learning

Vishal, Bhavesh, Nabhesh, Rushikesh

Students, Department of Computer Engineering
Guru Gobind Singh Polytechnic, Nashik, Maharashtra, India

Abstract: *The rapid advancement of technology has paved the way for innovative agricultural practices. This paper presents a comprehensive survey on soil type detection and crop recommendation systems utilizing Internet of Things (IoT) devices and Machine Learning (ML) algorithms. By integrating real-time data collection through IoT and predictive analytics via ML, farmers can make informed decisions, optimize crop yield, and enhance sustainable practices.*

Keywords: soil type detection ,crop recommendation , agricultural, Internet of Things , Machine Learning