IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 4, Issue 2, February 2024

Soil Classification and Crop Suggestion using Machine Learning Techniques

Dhiraj Ingole¹, Gaurav Pachbhai², Pranav Jambhrunkar³, Aniket Bismore⁴, Prof. R. N. Satthwane⁵

Students, Department of Computer Engineering^{1,2,3,4}
Guide, Department of Computer Engineering⁵
Sinhgad Institute of Technology, Lonavala, India
dhirajingole.sit.comp@gmail.com¹, gauravpachbhai789.sit.comp@gmail.com²
pranavjambharunkar.sit.comp@gmail.com³, aniketbismore.sit.comp@gmail.com⁴

Abstract: In agriculture, the optimization of crop selection based on soil characteristics plays a pivotal role in maximizing yields and ensuring sustainable agricultural practices. Traditional methods of soil classification and crop suggestion rely heavily on manual labour and expertise, often resulting in time-consuming processes with limited accuracy. However, the integration of machine learning techniques presents a promising solution to this challenge

Keywords: Agriculture

REFERENCES

- [1]. Y Jeevan Nagendra Kumar; V. Spandana; V.S. Vaishnavi; K. Neha, V.G.R.R Devi., 2020. Supervised Machine learning
- [2]. Fatin Farhan Haque; Ahmed Abdelgawd, Venkata Prasanth Yangmbaka , Kumar Yelamarathi , 2020 ,Crop Yield Analysis Using Machine Learning Algorithms
- [3]. R. Nikhil; B.S. Anisha; Ramakanth Kumar P.,2020,Real-Time Monitoring of Agricultural Land with Crop Prediction and Animal Intrusion Prevention using Internet of Things and Machine Learning at Edge.
- [4]. Rajeshwari and K. Arunesh, "Analysing Soil Data using Data Mining Classification techniques," Vol 9(19), May 2016

BIOGRAPHY

- Dhiraj Ingole An Undergraduate Scholar pursuing Bachelors in Computer Engineering from Sinhgad Institute of Technology. He is working under the guidance of Prof. R. N. Satthwane
- Gaurav Pachbhai An Undergraduate Scholar pursuing Bachelors in Computer Engineering from Sinhgad Institute of Technology. He is working under the guidance of Prof. R. N. Satthwane
- Pranav Jambhrunkar An Undergraduate Scholar pursuing Bachelors in Computer Engineering from Sinhgad Institute of Technology. He is working under the guidance of Prof. R. N. Satthwane
- Aniket Bismore An Undergraduate Scholar pursuing Bachelors in Computer Engineering from Sinhgad Institute of Technology. He is working under the guidance of Prof. R. N. Satthwane

DOI: 10.48175/IJARSCT-15480

