IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
Volume 2, Issue 5, June 2022
Impact Factor: 6.252

Soil Testing Prediction System

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Abstract: *Soil Testing Prediction aims to forecast the functional qualities of a soil sample (calcium, phosphorus, pH, sand, and soil organic carbon). Soil Testing Prediction is used in agriculture, farming, and research. It can aid in cost-effective crop management and increased agricultural output. We investigated how old soil testing methods could be substituted with modern Machine Learning approaches, resulting in more cost-effective, time-efficient ways with little to no environmental impact. It tries to bring the labs to the user rather than the user going to the labs, and it trains to lower the technical expertise required at the user's end. Instead of taking the user to the lab, it tries to bring the lab to the user.*

Keywords: Linear Regression, Feature Selection, Soil Functional Properties, Extraction Methods for Mehlich-3

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