

Crop Recommendation System using AI

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Abstract: *Farmers can use this desktop-based application, which is useful. Analysts have become increasingly interested in ashore planning and its layout over the last several years for a variety of reasons. The growing interest in agricultural land and soil health research, since the strength of the soil is essential for the reliable development of yields, are the driving forces behind an increase in the focus of the research local region. One such technique for examining the health of soil and land is picture order. It is a perplexing measurement that takes the effects of various factors into account. The analysis of flow that has been suggested in this work addresses both its potential and the problems it tended to cause. The accentuation is centered on the logical investigation of different progressed and effective grouping systems and procedures. Here, it has been endeavored to consider the components these methodologies have routed to improve the precision of the characterization. Appropriate usage of the quantity of highlights of distantly detected information and choosing the best reasonable classifier are generally significant for improving the precision of the grouping. The information - based arrangement or non-parametric classifier like neural network have acquired ubiquity for multisource information grouping as of late. Not with standing, there is as yet the extent of additional exploration, to lessen vulnerabilities in the improvement of precision of the Image grouping instruments. By using support vector machine algorithm is used to recommend the crops based on the soil.*

Keywords: Convolutional Neural Network, Random Forest, Crop Recommendation System.

REFERENCES

- [1]. A. Krizhevsky, I. Sutskever and G. E. Hinton, "Imagenet type with deep convolutional neural networks," advances in neural information processing systems, pp. 1097-1105, 2012.
- [2]. Dharesh Vadhia, Minal Vaity, Krutika Tawate, Dnyaneshwar Kapse, "real time soil fertility analyzer and crop prediction," worldwide studies magazine of engineering and technology, vol. 04, 2017.
- [3]. Devi, M. P. K., Anthiyur, U., & Shenbagavadivu, M. S. (2016). Enhanced Crop Yield Prediction and Soil Data Analysis Using Data Mining.
- [4]. International Journal of Modern Computer Science, 4(6).
- [5]. Surili Agarwal, Neha Bhangale, Kameya Dhanure, Shreeya Gavhane, V.A. Chakkarwar, Dr. M.B.Nagori "Application of Colorimetry to determine Soil Fertility through Naive Bayes Classification Algorithm" 9th ICCNT 2018 July 10-12, 2018, IISC, Bengaluru.
- [6]. Sk Al Zaminur Rahman, Kaushikchandramitra, S. M. Mohidulislam "soil class the usage of gadget studying methods and crop notion based on soil series" 2018 21st worldwide convention of computer and facts era (iccit), 21-23 December, 2