

Prediction of Crop Yield Using Machine Learning Algorithm

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Abstract: Crop yield production value updation has a positive practical significance for guiding agricultural production and for notifying the change in market rate of crop to the farmer. The concept of this paper is to implement the crop selection method so that this method helps in solving many agriculture and farmers problems. This improves our Indian economy by maximizing the yield rate of crop production. Different types of land condition. So, the quality of the crops is identified using ranking process. By this process the rate of the low quality and high-quality crop is also notified. The usage of ensemble of classifiers paves a path way to make a better decision on predictions due to the usage of multiple classifiers. Further, a ranking process is applied for decision making in order to select the classifiers results. This system is used to predict the cost of crop which is yielded for further.

Keywords: Prediction of crop price, ranking of crops, present and future prediction of crop price, data representation.

REFERENCES

- [1] Manpreet Kaur, Heena Gulati, Harish Kundra, "Data Mining in Agriculture on Crop Price Prediction: Techniques and Applications", International Journal of Computer Applications, Volume 99– No.12, August 2014.
- [2] J. Meng, "Research on the cost of agricultural products circulation and its control under the new normal economic development," Commercial Times, no. 23, pp. 145147, 2016.
- [3] A. Kaloxylou et al., "Farm management systems and the future Internet era," Comput. Electron. Agricult., vol. 89, pp. 130–144, Nov. 2012.
- [4] N. N. Li, T. S. Li, Z. S. Yu, Y. Rui, Y. Y. Miao, and Y. S. Li, "Factors influencing farmers' adoption of new technology based on Logistic-ISM model-a case study of potato planting technology in Dingxi City, Gansu Province," Progress in Geography, vol. 33, no. 4, pp. 542-551, 2014.
- [5] Y. Wang, "A neural network adaptive control based on rapid learning method and its application," Advances in Modeling and Analysis, Vol. 46(3), pp. 27-34, 1994.