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## E-Auction: Recommendation System for Farmers using Machine Learning

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Abstract: A major contribution to our country's GDP is agriculture. However, farmers have not yet received the required number of crops. This is largely due to improper irrigation or crop selection or sometimes because yields are lower than expected. The best crops that will have the highest yields and crop residues can be predicted by analyzing the soil and atmosphere in a particular area. This forecast will help growers to choose the right crop based on soil type, temperature, and humidity, water level, depth, soil pH, season, fertilizer and months. And our contribution applies to fertilizer recommendations, sale of goods and agricultural equipment to be rented. And to remove the third person between the farmers and the consumers in order to get a direct profit from the farmers. Program E: Auctions and Recommendations aims to eliminate the problems that appear in the manual auction system. The results obtained in subsequent tests were very impressive in terms of time, as well as benefits for farmers compared to the manual system. Such a system with all of these skills will go a long way in fixing the problems mentioned above with the existing manual voting system at auction.

Keywords: Agriculture, Crop Soil, E-auction, Prediction, Machine Learning, etc.

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