

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

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

Volume 3, Issue 3, May 2023

Krushi Sevaka

Abhi S Kamarthi¹, Ekshitha B², Arpita K³, Grishma G⁴, Rajeswari RP⁵

B.E Students, Dept. of Computer Science and Engineering^{1,2,3,4}
Asst. Professor, Dept.of Computer science and Engineering⁵
RYM Engineering College, Ballari, India

Abstract: The condition of the agriculturist in India today is very unfavourable. There are many reasons for this situation. One is various diseases in crops and the other is premature change. Climate change is natural and unstoppable but its effects can certainly be mitigated downwards. The proposed system "KRUSHI SEVAKA" offers a solution to this problem. The plan aims to reduce the farmer's workload, simplify his daily tasks, and ultimately increase crop yields. Firebase is used for authentication and real-time database facilitating backend operations. To determine the nearest location, the system uses custom zip codes that provide the latitude or longitude of the zip code and other information.

Keywords: Farmer, Weather, Location, Government Services, Android.

REFERENCES

- [1]. M. B. Deepthi and D. K. Shreekantha "Application of expert systems for agricultural crop disease diagnoses", Inventive Communication and Computational Technologies, March 2017.
- [2]. Sanjay Chaudhary, Minal Bhise, Asim Banerjee, Aakash Goyal, Chetan Moradiya, "Title: Agro advisory system for cotton crop", Communication Systems and Networks, 20157th International Conference, January 2015.
- [3]. Cecil Li, Ritaban Dutta, Corne Kloppers, Claire D'Est, Ahsan Morshed, Auro Almeida, Aruneema Das, Jagannath Aryal, "Mobile Application based water usage decision support system", SENSORS, 2013.
- [4]. http://searchnetworking.techtarget.com/definition/locati on-based-service-LBS.
- [5]. de Silva, Harsha and DimuthuRatnadiwakara (2008), 'Using ICT to reduce transaction costs in agriculturethrough better communication: A case-study from Sri Lanka', mimeo, 2008.
- [6]. "A Literature Survey on Crop Yield Prediction Using Machine Learning Techniques" by Mohammad Shorif Uddin and Mohammad Abul Bashar (2020).
- [7]. "Yield Prediction of Tomato Crop Using Machine Learning Techniques" by Kavya N. and Anupama N. (2020)
- [8]. "Crop classification using machine learning techniques: A review" by S. Ghosh, S. Kundu, and S. K. Bandyopadhyay (Computers and Electronics in Agriculture, 2018).
- [9]. "Crop Classification Using Machine Learning Algorithms: A Comprehensive Study" by V. P. M. P. Namburu, G. P. Hancke, and J. P. Meyer (IEEE Access, 2018).
- [10]. "Crop classification using hyperspectral imaging and machine learning techniques" by R. R. N. Maia, R. F. da S. Torres, and M. A. Silva (Computers and Electronics in Agriculture, 2019).
- [11]. "A comparison of machine learning algorithms for crop classification using multi-spectral remote sensing data" by M. Gholizadeh, M. H. Gholami, and S. Hashemi (Computers and Electronics in Agriculture, 2019).
- [12]. "Secure OTP Authentication for Mobile Applications using Firebase and Flutter" by R. Krishnamoorthy and R. Prasanna.
- [13]. "Design and Implementation of OTP Authentication for Mobile Applications" by R. Arun and P. Latha.
- [14]. "Secure OTP Authentication for Android Applications using Firebase and Flutter" by V. S. Deepika and S. Prabhu

