M.KUMARASAMY
COLLEGE OF ENGINEERING
NAAC Accredited Autonomous Institution
Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 & ISO 14001:2015 Certified Institution
Thalavapalayam, Karur – 639 113.

MINOR PROJECT REVIEW-3

SMART AGRICULTURE SYSTEM

GUIDED BY, SM.HEMALATHA
Assistant Professor/Department of AI&DS
M. Kumarasamy College of Engineering
Karur

PREPARED BY,

R.DharaniDharan (927621BAD009)
P.Sai Prashanna
T.Thanish Suriya (927621BAD043)

INTRODUCTION

- Water system is the simulated utilization of water to the land or soil.
- It is utilized to aid the developing of horticultural products, upkeep of scenes, and re vegetation of irritated soils in dry regions and amid times of lacking precipitation.
- The sprinklers are typically introduced with the highest point of the head flush with the ground surface.
- Producers are by and large laid on the dirt surface or covered a couple creeps to diminish dissipation misfortunes.
- Since the relative humidity alone does not tell us anything about the absolute water holding capacity of air, a different measurement is sometime used to describe the absolute moisture status of the soil.

ABSTRA

- This abstract focuses on the application of Artificial Intelligence in the Agriculture sector.
- It explores how AI can revolutionize crop management, optimize yield potential and improve overall farm productivity.
- The paper discusses novel advancements that have been made to date, outlining possible applications of AI technology such as automated irrigation monitoring systems, image-based weed detection, soil mapping techniques and precision farming methods using satellite imagery and data analysis.
- Lastly, this abstract summarizes existing progress within the field along with potential challenges yet to be addressed for further development moving forward.

PROBLEM STATEMENT

- The chip gives energy to the sensors and controls how frequently sensors information is perused from the sensors.
- A versatile Wi-Fi was utilized to send the information specifically from the Android telephone to the database, changes in the qualities can be seen particularly as far as soil dampness, scope and longitude because of the way that they are distinctive examples at various area.

CREATIVE IDEA

- AI-Powered Weather Prediction:

Implement machine learning algorithms to analyze historical weather data, satellite imagery, and real-time atmospheric conditions.

Provide farmers with accurate short-term and long-term weather predictions tailored to their specific location.

Alerts for potential extreme weather events, allowing farmers to take preventive measures.

- Crop-Specific Recommendations:

Integrate a knowledge base that understands the water and climate needs of different crops.Offer personalized recommendations for each crop, taking into account its growth stage, soil type, and historical performance.

CONCLUSION

- In conclusion, the agricultural system in Aisa has experienced rapid change and progress over the past years.
- The government of various countries have invested substantial efforts to improve the sector with successful initiatives such as assessing resources, providing subsidies, strengthening food security systems, improving irrigation methods and increasing usage of modern tools for farming.
- With continued support from authorities and citizens alike, this development should stay strong into the future.