SMART FARMER- IOT ENABLED SMART FARMING APPLICATION

#	PAPER TITLE	PUBLICATION	INFERENCE	KEY CHALLENGE
1	Sensor fusion based intelligent Hydroponic farming and Nursing systems	IEEE Sensors Journal, Vol. 22, No.. 14, 15 July 2022	• A sensor-fusion-based smart hydroponic system has been suggested. • The system's goal is to keep an monitor and control environmental factors so that hydroponically grown plants produce more. • The system uses several sensors that are coordinated to operate and communicate with one another	• Expensive to set up the design • Requires constant monitoring and maintenance. • Risks of water and electricity
2	Reliability provisioning for Fog Nodes in Smart Farming IoT-Fog-Cloud continuum	Elsevier Computer and Electronics In Agriculture, July 2022	Introduces an optimization model for providing reliability and, consequently, service continuity to the IoT-Fog-Cloud continuum-based smart farms	• Controllers and storages are distributed across various locations in the network • Needs more maintenance and power consumption. • Achieve data consistency requires more effort.
3	IoT-Equipped and AI-Enabled Next generation Smart Agriculture: Current Challenges and Future Trends	Creative Commons Attributions 4.0, 2022	• Enabling efficient management of resources • Minimizing water requirements for irrigation and minimizing the use of toxic pesiticides.	• Requirements of high level technology is necessary

4	Smart farming architectures based in IoT review: comparative study	The 2nd International Workshop on Edge AI IoT for Smart Agriculture (SA2IOT) August 9-11, 2022	• Comparative study of the several proposed architectures on smart farming • Different features, protocols, technologies, security, accessibility, interoperability, resilience etc.,are analyzed	• Construction is very complex • Usage of many protocols makes the user discomfort with the product
5	Smart Agriculture and Smart Farming using IoT Technology	IOP publishing Ltd.2021	• IoT-based applications in agriculture • Identifying need for appropriate tools and explaining the functioning of the tools	• The designed product will not adopt the climate changes