

ABSTRACT

The Internet of Things (IoT) is a network of physical objects, including furniture, machinery, vehicles, and buildings, that are equipped with connections, electronics, software, sensors, and other components that allow them to connect and share information. This makes it possible for the physical and digital worlds to coexist seamlessly, opening the door to prospects for automation, improved productivity, and new services. Healthcare, industry, and agriculture are just a few of the sectors that the Internet of Things has already completely transformed, and it is predicted that many more will follow. The potential for innovation and growth in the IoT sector is enormous as more gadgets connect to the internet.

Mushrooms are one among the food items that contains very high protein. It is found in nature at places where the environment is unique when compared to the majority of other plants that thrive in. Mimicking this environment conducive for it to grow in our living place itself will provide a good protein rich source, eliminating us to go to market to get which are sold at very high premium prices, which deprive the common man to avail at an affordable price. We aim at building a system that automates the process of maintaining the environmental factors at the right threshold so that everyone could grow their own. The system currently supports growing oyster mushrooms, in future development we aim at developing a system that is capable of growing any kind of edible mushroom at commercial level also. Thus we could reach endless possibilities of growing various kinds of mushrooms. Growing one's own food with this system will allow them to explore further new ways and means to enhance best parameters for maximum quality and quantity, in turn can provide them happiness in what they are doing.