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(54) Title of the invention	: An Artificial Intelligence - IoT	based Smart Poultry Farm	Prototype for Indian Farming Sector

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(57) Abstract : The whole world is turning into automation. All corporate, government, and public sectors are integrating automation into their respective domains to enhance productivity. Farming is a major sector where the need and demand for automation are widely open. Most countries started implementing and providing smart farming solutions. In this proposed work, smart poultry farming which is an integral part of farming is concentrated and a demand for automation are widely open. Most countries started implementing and providing smart farming solutions. In this proposed work, smart poultry farming which is an integral part of farming is concentrated and a like Artificial demand for automation are where open. Most countries started implementing and providing smart iarming solutions. In this proposed work, smart pourty farming which is an integral part of rarming is concentrated and a novel prototype is designed. In India, several farmers own poultry farms, but the productivity, efficiency, and animal welfare are not satisfactory. Hence, integrating advanced technologies like Artificial Intelligence (AI), Internet of Things (IoT) sensors, and Robotics results in profitable and sustainable farming. IoT sensors for various aspects like Temperature sensors, Humidity sensors (DTH11), Lighting sensors (LDR), Air quality sensors (MG135), Camera sensors, Thermal camera sensors, Water quality sensors (pH), and GSM modules are integrated into this prototype. The developed automation system assists in manpower reduction, monitoring the bird's health, optimized resource utilization, and results in overall enhanced productivity. This kind of AI-IoT-assisted smart system for poultry farming will support the farmers to overcome several challenges and successfully run the poultry farm.

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