Full Observation System for Monitoring Animal Health and Behavior Using Advanced Artificial Intelligence in Farms

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In many farms around the world, production is not maximized due to animals getting sick, which could affect their milk production, Reproduction, weight, and more, based on the The World Organization for Animal Health report 20% of animal production is lost due to deseased without system farms will lose a lot in the long term. FOS+ system that is used in farms to monitor animals like sheep, cows, goats, and rabbits. We built a website for that with AI that we built through TensorFlow and TensorFlow.js , and it works by uploading a picture of the full area of the farm to the system, and it will be divided into multiple blocks depending on the size of the area. Then all animals will be listed and all of them will get a special marker and a special ID to be identified using the camera system special ID, with other types of data: weight, and age. Then the system will monitor every single animal's behavior through cameras that are connected to an AI that will detect the animal`s drinking habits, eating habits, sleep patterns and social behavior which will variate from animal to other, after all of that all of the collected data overtime will be analyzed through AI which will determine if the animal is sick. Another way to detect sickness is through animal appearance diseases like lsd have physical signs that can be detected using cameras, and if there is a A sick animal his location will be marked on the map of the farm, with the AI help you will know how to deal with it in the right way. By applying this system in farms, it will result in maximizing profit and avoiding any type of loss for the farmers, and it will make animal products healthier without any diseases that can affect humans which lead to a huge step into food safety around the world.

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