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Patent Search

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Abstract:

Machine Learning and IOT for Predicting Electric Power and Optimising Features Based on Soil Moisture in Agriculture is the proposed invention. The proposed invention f on understanding the correlation between Electric Power and optimising Features in Agriculture. The invention focuses on analysing the parameters of soil moisture in Agriculture using algorithms of Machine Learning.

Complete Specification

Description:[0001] Background description includes information that may be useful in understanding the present invention. It is not an admission that any of the information provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.

[0002] Machine learning (ML) is a branch of artificial intelligence (AI) that uses algorithms trained on data to create models that enable machines to perform tasks that humans would otherwise do. These tasks can include analysing data, categorizing images, or predicting price fluctuations. There are different types of Machine learning (ML), including supervised learning, unsupervised learning, and reinforcement learning.

[0003] A number of different types of soil moisture analysis systems that are known in the prior art. For example, the following patents are provided for their supportiv teachings and are all incorporated by reference.

[0004] US11263707B2: A crop prediction system performs various machine learning operations to predict crop production and to identify a set of farming operations t if performed, optimize crop production. The crop prediction system uses crop prediction models trained using various machine learning operations based on geographic and agronomic information. Responsive to receiving a request from a grower, the crop prediction system can access information representation of a portion of land corresponding to the request, such as the location of the land and corresponding weather conditions and soil composition. The crop prediction system applies one or m crop prediction models to the access information to predict a crop production and identify an optimized set of farming operations for the grower to perform.

[0005] The Internet of Things (IOT) is a network of physical devices, tools, and other smart objects that can communicate with each other and the cloud and collect and transmit data about the physical world. IOT devices can include household objects, industrial tools, vehicles, and appliances, and are embedded with sensors, software, and network connectivity. The primary goal of IOT is to create self-reporting devices that can communicate with each other and users in real time without human intervention

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