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Water Consumption Prediction Using Machine Learning Algorithm

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Abstract: Water is a crucial resource, and regulating its consumption is critical to long-term sustainability. Understanding and anticipating water usage trends has become increasingly important for resource management, conservation, and strategic planning as populations and cities develop. This research analyses and forecasts water use using a predictive model based on the Support Vector Machine (SVM) algorithm and a textual collection of historical data. This technology may predict future demand by identifying water usage patterns, allowing for more efficient water distribution and preventing short ages To provide accurate forecasts about water usage, the system uses important procedures such as feature extraction, segmentation, and classification.

Keywords: Water Prediction, Machine Learning, Random Forest, Linear Regression





