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Information Theoretic Approach in Winnowing Inputs

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Abstract - Literature reported that breast Cancer is one of the most common types of cancer in woman in many countries . Extensive amount of knowledge and data stored in medical databases require specialized tools for analysis and effective usage of data . Researchers have found that Neural Network (NN) capabilities can help them to improve this domain in classification . As many researches have discovered , information theory exhibits the characteristics of the data to be used for classification by renewing the relevant data with minimal redundancy . The performance of this approach is evaluated using Learning Vector Quantization (LVQ) neural network for increasing the accuracy and also minimizing the time taken for classification . The objectivity of breast cancer diagnosis using well known and widely accepted Wisconsin Breast Cancer Data (WBCD) is examined in this paper .