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Prediction of Parkinson Disease Using Different Machine Learning Strategies

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Objectives: Parkinson's disease (PD) is a long-term degenerative disorder of the central nervous system that mainly affects the motor system. Nowadays classification and prediction of Parkinson's diseases is a burning issue.

Methods: We have used four machine learning techniques for Parkinson's diseases classification and prediction. The data was extracted from UCI machine learning data repository.

Results: This research showed that support vector machine with polynomial kernel achieve accuracy, sensitivity, specificity, positive predictive value, negative predictive value **0.86, 0.85, 0.88, 0.87** and **0.85** respectively and they are the maximum values.

Conclusions: his result makes the decision that support vector machine with polynomial kernel is the best classification and prediction method for Parkinson's diseases.