

Review of: "Feature Selection and Classification of Type II Diabetes on High Dimensional Dataset"

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Potential competing interests: No potential competing interests to declare.

The article makes a strong contribution to the discussion on feature selection and its impact on the classification of Type II Diabetes. The methodology is sound, and the inclusion of various classifiers provides a comprehensive comparison. However, expanding the discussion on the "Curse of Dimensionality" and including more detailed comparative results and visualizations could further enhance its utility for both academic and practical applications.

Further Exploration of "Curse of Dimensionality":

The article introduces the concept of the "Curse of Dimensionality," but does not fully explain how this impacts
classifier performance across other algorithms. Expanding on how dimensionality affects different machine learning
models could enhance the depth of the analysis.

Visualization of Performance:

While a chart is provided to illustrate the performance drop as the dimensionality increases, additional visualizations
comparing classifier performance for different feature subsets (e.g., a bar chart or heatmap comparing accuracy,
precision, etc. across classifiers) would make the findings more accessible.

Error Analysis:

• A brief error analysis, discussing possible reasons for misclassification (e.g., noisy features, data imbalance, limitations of the Naïve Bayes assumption of independence), would add depth to the conclusion. It would also help guide future research on how to further improve classification accuracy.

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