

# Variable Projection Support Vector Machines for Simple and Interpretable Machine Learning

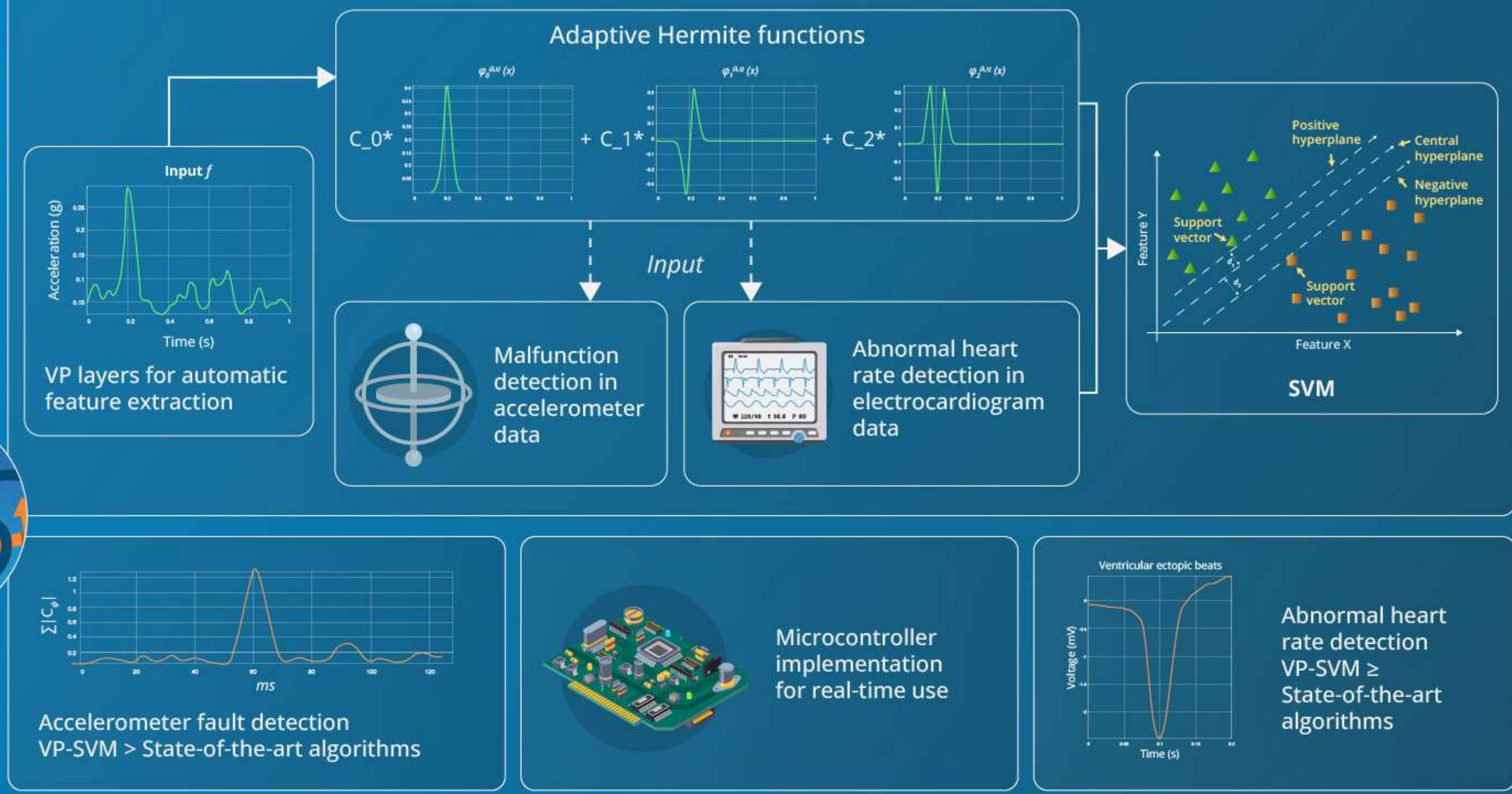
Traditional methods for feature extraction used in the training of machine learning (ML) algorithms **suffer from performance issues**



New methods such as **convolutional neural networks** and **mathematically justified ML methods** are **black-box models** that are **difficult to understand for humans**



**New variable projection support vector machine (VP-SVM) for automatic feature extraction**



**VP-SVM provides a more interpretable and simple model architecture for ML models with comparable or even greater performance to state-of-the-art models**