Supplementary information

Original feature renaming

For clarification and precision purposes, we slightly changed some names of the features from the original dataset [**?**, **?**]:
We renamed "Gender" to "sex".
We renamed "BP" to "high blood pressure".
We renamed "Platelets" to "platelets".
We renamed "Sodium" to "serum sodium".
We renamed "CPK" to "creatinine phosphokinase".
We renamed "Creatinine" to "serum creatinine".
We renamed "Event" to "death event", which is the survival target.

Binary statistical rates

List of statistical rates and their formulas:

$$\text{MCC} = \frac{TP \cdot TN - FP \cdot FN}{\sqrt{(TP+FP) \cdot (TP+FN) \cdot (TN+FP) \cdot (TN+FN)}} \tag{1}$$

$$(\text{worst value} = -1; \text{ best value} = +1)$$

$$\text{F}_1 \text{ score} = \frac{2 \cdot TP}{2 \cdot TP + FP + FN} \tag{2}$$

$$(\text{worst value} = 0; \text{ best value} = 1)$$

$$\text{accuracy} = \frac{TP + TN}{TP + FN + TN + FP} \tag{3}$$

$$(\text{worst value} = 0; \text{ best value} = 1)$$

$$\text{true positive rate} = \text{recall} = \text{sensitivity} = \frac{TP}{TP + FN} \tag{4}$$

$$(\text{worst value} = 0; \text{ best value} = 1)$$

$$\text{true negative rate} = \text{specificity} = \frac{TN}{TN + FP} \tag{5}$$

$$(\text{worst value} = 0; \text{ best value} = 1)$$

$$\text{precision} = \frac{TP}{TP + FP} \tag{6}$$

$$(\text{worst value} = 0; \text{ best value} = 1)$$

$$\text{false positive rate} = \text{fallout} = \frac{FP}{FP + TN} \tag{7}$$

$$(\text{worst value} = 1; \text{ best value} = 0)$$

$$\text{Precision-Recall (PR) curve} = \begin{cases} \textit{true positive rate} & \textit{on the x axis} \\ \textit{precision} & \textit{on the y axis} \end{cases} \tag{8}$$

$$(\text{worst value} = 0; \text{ best value} = 1)$$

$$\text{ROC curve} = \begin{cases} \textit{false positive rate} & \textit{on the x axis} \\ \textit{true positive rate} & \textit{on the y axis} \end{cases} \tag{9}$$

$$(\text{worst value} = 0; \text{ best value} = 1)$$