**CONCLUSION**

In this paper, we identiﬁed the privacy issue of the data correlation in machine learning, which may result in more privacy loss than expected in industrial applications. We propose a novel feature selection scheme to reduce data correlation with little compromise to data utility. The proposed CR-FS(correleted feature selection) scheme includes steps that consider the accuracy of predicted results, the privacy preserving and the data correlation in the dataset. Our proposed algorithm strikes a better trade-off between data utility and privacy leaks for correlated datasets. The method’s performance is evaluated via extensive experiments, and the results prove that our proposed CR-FS scheme provides better data utility for both data analysis and data queries compared to traditional schemes.