



# D-ACES Framework Proposal and Analysis

**conclusion**

1. By building on the previous attempts, if any of them demonstrate positive performance, what kind of new competitive framework can be proposed?

(a) Compared to state-of-the-art IFS methods (e.g., INVASE, L2X, LIME, SHAP), what advantages does the new framework offer?

- ✓ Real-time explanations (vs LIME & SHAP)
- ✓ More stable and consistently high performance across various datasets (vs LIME & SHAP)
- ✓ Performs better when true explanations vary across instances (vs L2X & INVASE)
- ✓ Significantly mitigates sensitivity issues of hyperparameters (vs INVASE)

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  - (b) How does the newly proposed framework perform on other types of data (e.g., text)?