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Incremental feature extraction based on decision boundaries

Seongyoun Woo , Chulhee Lee

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Highlights

- We developed a gradient based decision boundary feature extraction algorithm for neural networks and its incremental version.
- The proposed method updates the decision boundaries from sequentially added samples and obtains discriminately informative vectors based on the updated decision boundaries.
- When applied to real world databases, it showed noticeably better classification performance than some existing incremental algorithms.

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