

On the other hand, the missing entries are actively queried based on a novel selection criterion, which simultaneously evaluates potential contribution of a feature on both recovering other entries and improving the classification model. Moreover, a bi-objective optimization method was introduced to handle the case where acquisition costs vary for different features. Extensive experimental results validated the superiority of our approach on matrix completion as well as classification performance. In the future, we plan to extend our approach and theoretical analysis to perform active querying both for missing features and class labels.

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