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Rongxin Xu, Xiaoyan Wang

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According to the label distribution, stratified sampling is performed on the original training set to form a new training set and a validation set. After this, comprehensive sampling is performed on the new training set, and the obtained data set is used as the training set for model training.

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Figure 1: split and resampling

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Use 5-fold cross-validation to evaluate the effect of the model, and get the average of accuracy and f1_macro.

Table 1: Mean value of accuracy and f1_macro under 5-fold cross validation

	mean_acc	mean_f1_macro
XGBoost	96.10%	96.14%
LightGBM	95.89%	95.94%
Randomforest	96.17%	96.21%

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Table 2: The accuracy and f1_macro on the validation set.

	accuracy	f1_macro
XGBoost	91%	77%
LightGBM	91%	78%
Randomforest	92%	79%

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Use the data of each category to train a single classifier and then integrate it with XGBoost.

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The accuracy rate is 67%, and f1_macro is 37%.

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■ Whether task1 wants to predict two target values?

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