Random Forest Algorithm

Logistic Regression

Gaussian NB

XGB Classifier

```
xgb = XGBClassifier()
xgb.fit(X_train_res, y_train_res)

Python

c:\users\admin\anaconda>\envs\rainprediction\lib\site-packages\xgboost\sklearn.py:888: Userwarning: The use of label encoder in XGBClassifier is deprecated and will be removed in a future release. To remove this warning, do the following: 1) Pass option use label_encoder-False when constructing XGBClassifier object; and 2) Encode your labels (y) as integrets starting with 0, i.e. 0, 1, 2, ..., [num_class - 1].

warnings.warn(label_encoder_deprecation_msg, Userwarning)

[09:09:227] WARNING: C:/Users/Administrator/workspace/xgboost-win64_release_1.3.0/src/learner.cc:1061: Starting in XGBcost 1.3.0, the default evaluation metric used with the objective 'binary:logistic' was changed from 'error' to 'logloss'. Explicitly set eval_metric if you'd like to restore the old behavior.

XGBClassifier(base_score=0.5, booster='gbtree', colsample_bylevel=1, colsample_bynode=1, colsample_bynode=1, colsample_bynode=1, colsample_bynode=1, colsample_bynode=1, gamma=0, gpu_id=-1, importance_type='gain', interaction_constraints='', learning_rate=0.30e000012, max_depth=6, min_child_weight=1, missing=nan, monotone_constraints='()', nestimators=100, n_jobs=8, num_parallel_tree=1, random_state=0, reg_alpha=0, reg_lambd=1, scale_pos_weight=1, subsample=1, tree_method='exact', validate_parameters=1, verbosity=None)
```

SVC Algorithm