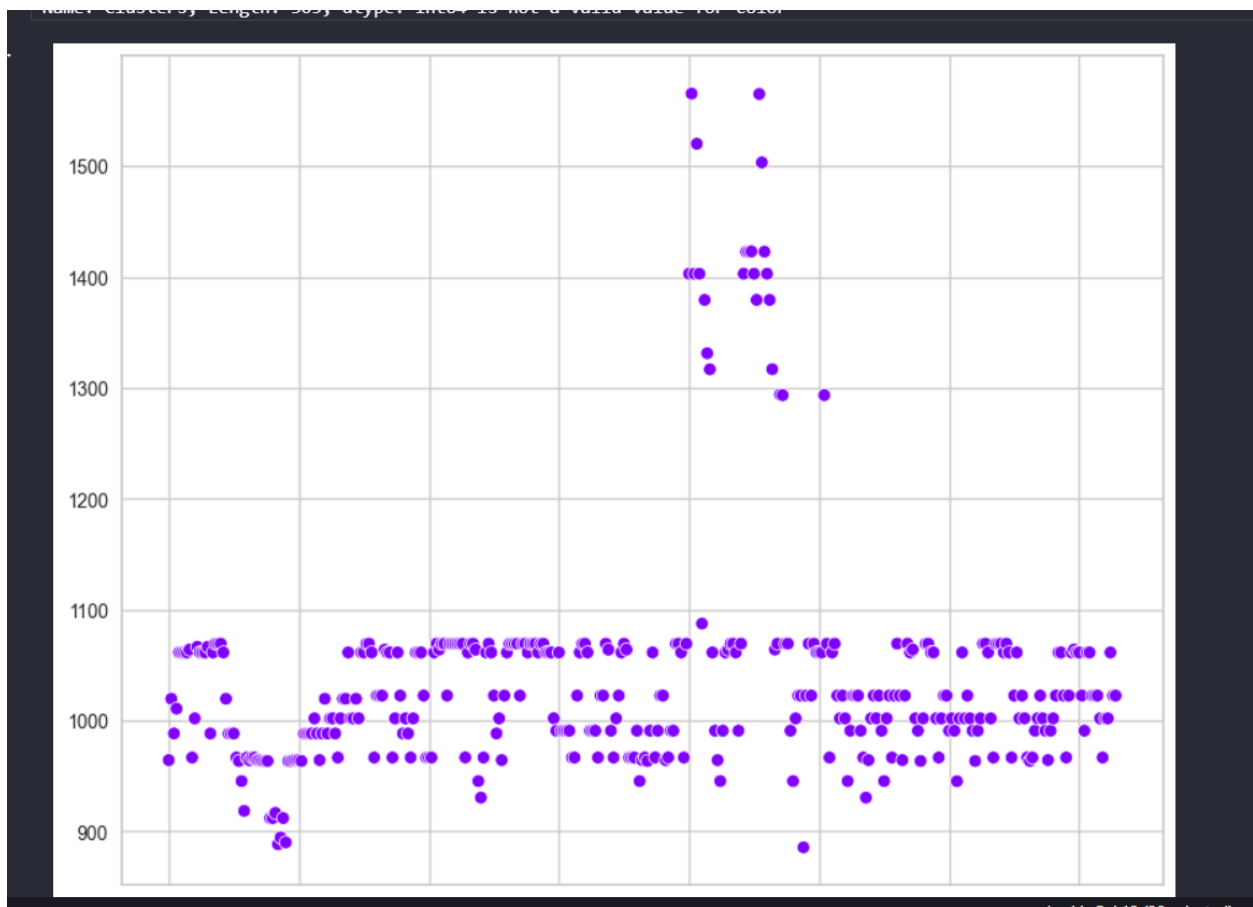


Ảnh Kết Quả



Ảnh ban đầu

```
#ricopue's notebook's code snippet
from sklearn.model_selection import StratifiedKFold
X_new=df_new.loc[train_index][feats]
y=df_new.loc[train_index]['preds']

params_lgb = {'learning_rate': 0.06,'objective': 'multiclass','boosting': 'gbdt','n_jobs': -1,'verbosity': -1, 'num_classes':7}

model_list=[]

gkf = StratifiedKFold(11)
for fold, (train_idx, valid_idx) in enumerate(gkf.split(X_new,y)):

    tr_dataset = lgb.Dataset(X_new.iloc[train_idx],y.iloc[train_idx],feature_name = feats)
    vl_dataset = lgb.Dataset(X_new.iloc[valid_idx],y.iloc[valid_idx],feature_name = feats)

    model = lgb.train(params = params_lgb,
                      train_set = tr_dataset,
                      valid_sets = vl_dataset,
                      num_boost_round = 5000,
                      callbacks=[ lgb.early_stopping(stopping_rounds=300, verbose=False), lgb.log_evaluation(period=200)])

    model_list.append(model)
```

0.2s

Kịch bản training