JupyterLab 🖸 🀞 Python 3 (ipykernel) 🔘

```
[3]: # 🥪 Elite Ensemble: Blending Logistic + XGBoost Stackers
                                                                                                                                                                                                                                ☆ □ ↑ ↓ 占 무 ■
         import os
import glob
import joblib
import pandas as pd
import numpy as np
from sklearn.metrics import average_precision_score
          # # raths
logi_folder = "champion_stacks"
xpb_folder = "xybpoost_stacks"
data_folder = "market_shock_synthetic_datasets"
base_model_folder = "champion_packages"
          # @ Load All Stackers
logi_models = {os.path.basename(f).replace("_stacked.pkl", ""): joblib.load(f)
for f in glob.glob(os.path.join(logi_folder, "*.pkl"))}
          # 📈 Load All Datasets
          # If Load ALL varasets
datasets = {os.path.basename(p).replace(".csv", ""): pd.read_csv(p)
for p in glob.glob(os.path.join(data_folder, "*.csv"))}
          # * Load base models for meta-feature reconstruction
base_model_paths = [p for p in glob.glob[os.path.join(base_model_folder, "*.pkl")) if "_meta" not in p]
base_models = [joblib.load(p) for p in base_model_paths]
          # # Weighted Blend Config
weights = {"logi": 0.4, "xgb": 0.6} # Feel free to tune
          results = []
for name, df in datasets.items():
    if name in log1_models and name in xgb_models:
        X = df.drop("rac_event", axis=1)
        y = df["rare_event"]
                        # Rebuild meta-features for this dataset
meta_features = []
for model in base_models:
    try:
        meta_features.append(model.predict_proba(X)[:, 1])
                               except AttributeError:

meta_features.append(model.decision_function(X))
                         X_meta = np.vstack(meta_features).T
                          # Predict from each stacker
logi_pred = logi_models(name].predict_proba(X_meta)[:, 1]
xgb_pred = xgb_models(name].predict_proba(X_meta)[:, 1]
blended = weights("logi") * logi_pred + weights["xgb"] * xgb_pred
                          pr_auc = average_precision_score(y, blended)
baseline = y.mean()
                        results.append((
"Dataset": name,
"PR AUC": round(pr_auc, 3),
"Basetine": round(basetine, 3),
"Lift": round(pr_auc - basetine, 3),
"Liftoff": "$" if pr_auc >= 0.6 else "$"
          # [#] Save leaderboard
results_df = pd.DataFrame(results).sort_values(by="Lift", ascending=False)
results_df.to_csv("ensemble_blended_lift_results.csv", index=False)
print(results_df)
```