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import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import LabelEncoder, StandardScaler
from sklearn.neighbors import KNeighborsClassifier
from sklearn.metrics import accuracy_score, classification_report

df = pd.read_csv("EPL.csv")

features = [
    "HomeTeamShots", "AwayTeamShots", "HomeTeamShotsOnTarget",
    "AwayTeamShotsOnTarget",
    "HomeTeamCorners", "AwayTeamCorners", "HomeTeamFouls",
    "AwayTeamFouls",
    "HomeTeamYellowCards", "AwayTeamYellowCards", "B365HomeTeam",
    "B365Draw", "B365AwayTeam"
]

target = "FullTimeResult"

le = LabelEncoder()
df[target] = le.fit_transform(df[target])

df.dropna(subset=features + [target], inplace=True)

X = df[features]
y = df[target]

scaler = StandardScaler()
X_scaled = scaler.fit_transform(X)

X_train, X_test, y_train, y_test = train_test_split(X_scaled, y,
test_size=0.2, random_state=42)

k = 100
knn = KNeighborsClassifier(n_neighbors=k)
knn.fit(X_train, y_train)

y_pred = knn.predict(X_test)

accuracy = accuracy_score(y_test, y_pred)
print(f"Accuracy: {accuracy:.4f}")
print(classification_report(y_test, y_pred, target_names=le.classes_))

```

Accuracy: 0.6000

	precision	recall	f1-score	support
A	0.64	0.70	0.67	139
D	0.33	0.01	0.02	108
H	0.58	0.89	0.70	173
accuracy			0.60	420

macro avg	0.52	0.53	0.46	420
weighted avg	0.54	0.60	0.51	420