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import pandas as pd

from sklearn.model_selection import train_test_split
from sklearn.ensemble import RandomForestRegressor
from sklearn.metrics import r2_score, mean_absolute_error


# Load dataset
data = pd.read_csv("crop_yield_data.csv")


# Encode categorical columns
data = pd.get_dummies(data, drop_first=True)


# Split into features and target
X = data.drop("Yield", axis=1)
y = data["Yield"]


# Train-test split
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)


# Train model
model = RandomForestRegressor(n_estimators=100, random_state=42)
model.fit(X_train, y_train)


# Predict
y_pred = model.predict(X_test)


# Evaluate
print("R² Score:", r2_score(y_test, y_pred))
print("MAE:", mean_absolute_error(y_test, y_pred))
```