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import pandas as pd
from sklearn.model selection import train test split
from sklearn.preprocessing import StandardScaler
from sklearn.svm import SVR
from sklearn.metrics import mean squared error
# Load your dataset
file_path = '/content/cropwatMeerut.xlsx - Sheet1.csv'
df = pd.read_csv(file_path)
# Assuming 'ETo (mm/day)' is the target variable
X = df.drop(columns=['ETo (mm/day)', 'Year', 'Month'])
y = df['ETo (mm/day)']
# Split the data into training and testing sets
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)
# Standardize features
scaler = StandardScaler()
X_train_scaled = scaler.fit_transform(X_train)
X test scaled = scaler.transform(X test)
# Create and train the SVM regression model
svm_model = SVR(kernel='rbf', C=1.0, epsilon=0.1)
svm_model.fit(X_train_scaled, y_train)
     ▼ SVR
     SVR()
# Make predictions on the test set
predictions = svm model.predict(X test scaled)
# Evaluate the model
mse = mean_squared_error(y_test, predictions)
print(f'SVM Regression MSE on the test set: {mse}')
     SVM Regression MSE on the test set: 0.022010294364147615
import matplotlib.pyplot as plt
plt.scatter(y_test, predictions)
plt.xlabel('Actual ETo (mm/day)')
plt.ylabel('Predicted ETo (mm/day)')
plt.title('Actual vs. Predicted ETo')
plt.show()
```

