Temperature Forecast Project using ML

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#Import the necessary libraries:
import pandas as pd
from sklearn.model_selecBon import train_test_split
from sklearn.linear_model import LinearRegression
from sklearn.metrics import mean_squared_error
# Load the dataset
data = pd.read_csv(‘temperature_dataset.csv')
# Split features and target variables
features = data.drop(['Next_Tmin', 'Next_Tmax'], axis=1)
target_min = data['Next_Tmin']
target_max = data['Next_Tmax']
# Split the data into training and tesBng sets
X_train, X_test, y_train_min, y_test_min, y_train_max, y_test_max =
train_test_split(features, target_min, target_max, test_size=0.2, random_state=42)
# Build separate models for Next_Tmin and Next_Tmax
model_min = LinearRegression()
model_max = LinearRegression()
# Train the models
model_min.fit(X_train, y_train_min)
model_max.fit(X_train, y_train_max)
# Make predicBons on the test set
y_pred_min = model_min.predict(X_test)
y_pred_max = model_max.predict(X_test)
# Evaluate the models
mse_min = mean_squared_error(y_test_min, y_pred_min)
mse_max = mean_squared_error(y_test_max, y_pred_max)
print("Mean Squared Error (Next_Tmin):", mse_min)
print("Mean Squared Error (Next_Tmax):", mse_max)
```