```
37]
```

```
# 🤖 Step 6: Train Model
model = RandomForestRegressor(n_estimators=100, random_state=42)
model.fit(X_train, y_train)
```

```
RandomForestRegressor
RandomForestRegressor(random_state=42)
```

```
# 📊 Step 7: Evaluate
y_pred = model.predict(X_test)

print("R2 Score:", r2_score(y_test, y_pred))
print("MAE:", mean_absolute_error(y_test, y_pred))
print("MSE:", mean_squared_error(y_test, y_pred))
```

```
R2 Score: 0.9989969255499094
MAE: 29.02848717948722
MSE: 4034.793879777788
```

```
# 📉 Step 8: Visualize Results
plt.figure(figsize=(10, 6))
plt.scatter(y_test, y_pred, alpha=0.5)
plt.xlabel("Actual CO2 Emissions")
plt.ylabel("Predicted CO2 Emissions")
```