import numpy as np

from sklearn.linear\_model import LinearRegression

# Örnek veri seti

X = np.array([[1, 2], [2, 4], [3, 6], [4, 8], [5, 10]])

Y = np.array([2, 4, 6, 8, 10])

# Lineer regresyon modelini eğitme

model = LinearRegression()

model.fit(X, Y)

# Modelin tahminlerini al

predictions = model.predict(X)

# Pareto etkinliği kontrolü

pareto\_efficient\_indices = []

for i in range(len(predictions)):

is\_pareto\_efficient = True

for j in range(len(predictions)):

if predictions[j] > predictions[i]:

is\_pareto\_efficient = False

break

if is\_pareto\_efficient:

pareto\_efficient\_indices.append(i)

# Pareto etkin sonuçları yazdırma

print("Pareto etkin sonuçlar:")

for index in pareto\_efficient\_indices:

print("X:", X[index], "Y:", Y[index])