

HOUSE PRICE PREDICTION USING SIMPLE LINEAR REGRESSION

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# Step 1: Create CSV file
data = [
    ["Size", "Price"],
    [1000, 200000],
    [1500, 300000],
    [2000, 400000],
    [2500, 500000]
]

file = open("house_data.csv", "w")
for row in data:
    file.write(str(row[0]) + "," + str(row[1]) + "\n")
file.close()

print("CSV file created: house_data.csv\n")

# Step 2: Load dataset
sizes = [1000, 1500, 2000, 2500]
prices = [200000, 300000, 400000, 500000]

n = len(sizes)

# Calculate slope (m) and intercept (b)
sum_x = sum(sizes)
sum_y = sum(prices)
sum_xy = sum([sizes[i]*prices[i] for i in range(n)])
sum_x2 = sum([x*x for x in sizes])

m = (n*sum_xy - sum_x*sum_y) / (n*sum_x2 - sum_x*sum_x)
b = (sum_y - m*sum_x) / n

print("Slope (m):", m)
print("Intercept (b):", b)

# Predict price
test_size = 1800
predicted_price = m*test_size + b

print("\nPredicted price for", test_size, "sq.ft =", predicted_price)
|
```

===== RESTART: C:\Users\dell\OneDrive\Desktop\ML LAB\EX NO 14.py =====

CSV file created: iris.csv

Probability Setosa: 5.317495318540676

Probability Versicolor: 7.367783051638803e-11

Prediction: Setosa

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