

Gayatri Vidhate (CM23039)
MLTL Practical 1
Linear Regression through Synthetic Dataset

Learning Rate	Observation
0.01	Smooth regression line
0.05	Faster convergence
0.1	Slight oscillation
1	Unstable predictions
100	Divergence (NaN)

MLTL Practical 1

Linear Regression using Synthetic Dataset

Temperature vs Ice Cream Sales

Choose file No file chosen

0.01

Train Model

Enter Temperature (°C)

Predict

MLTL Practical 1

Linear Regression using Synthetic Dataset

Temperature vs Ice Cream Sales

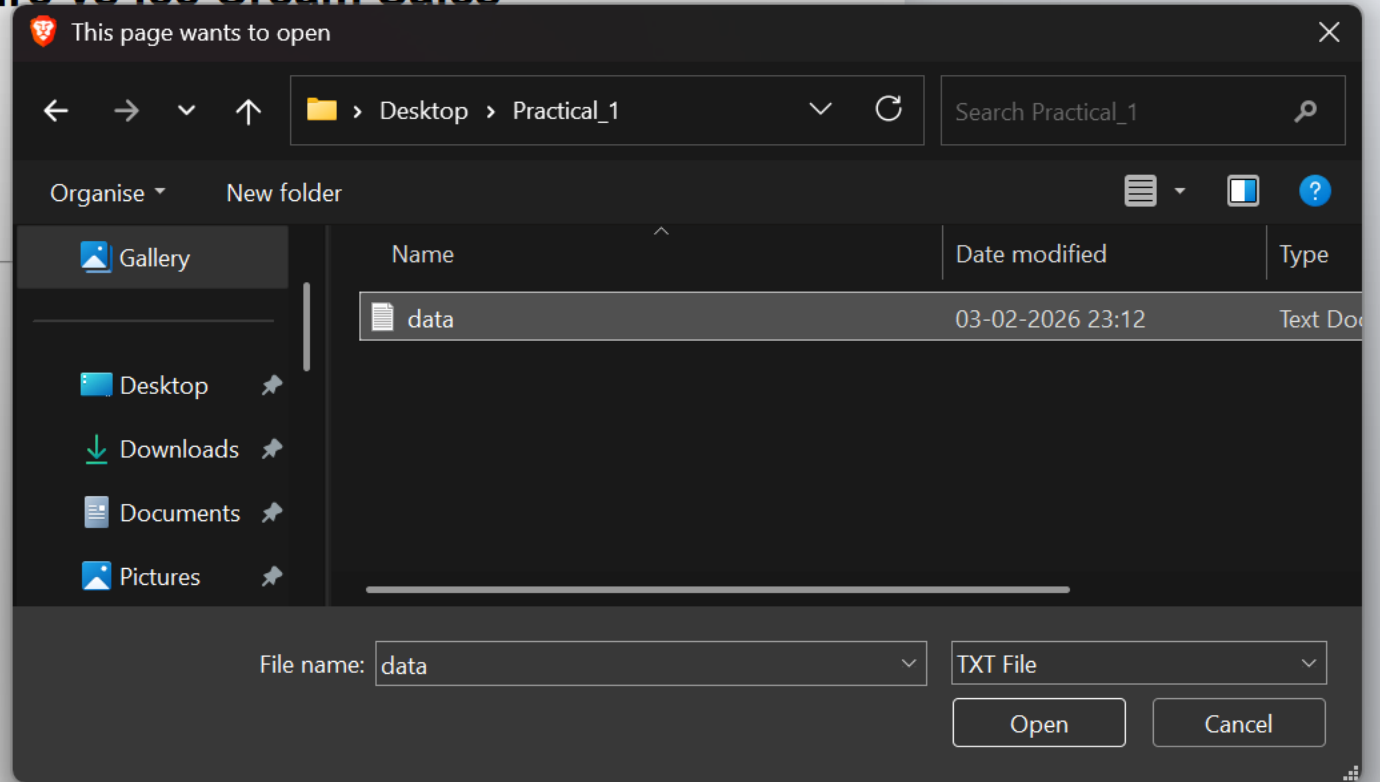
Choose file No file chosen

0.01

Train Model

Enter Temperature (°C)

Predict



Temperature vs Ice Cream Sales

Choose file data.txt

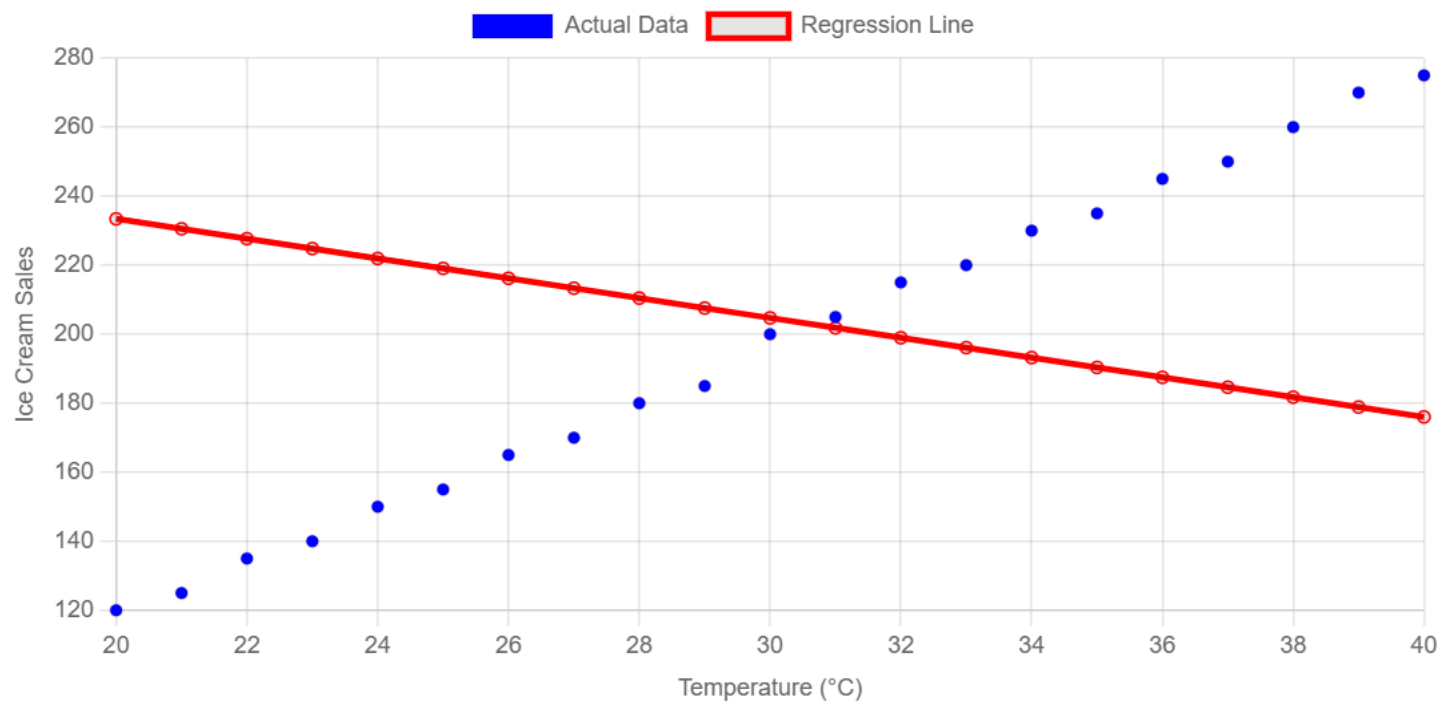
0.01

Train Model

Model trained successfully (Learning Rate = 0.01)

Enter Temperature (°C)

Predict



Temperature vs Ice Cream Sales

Choose file data.txt

0.01

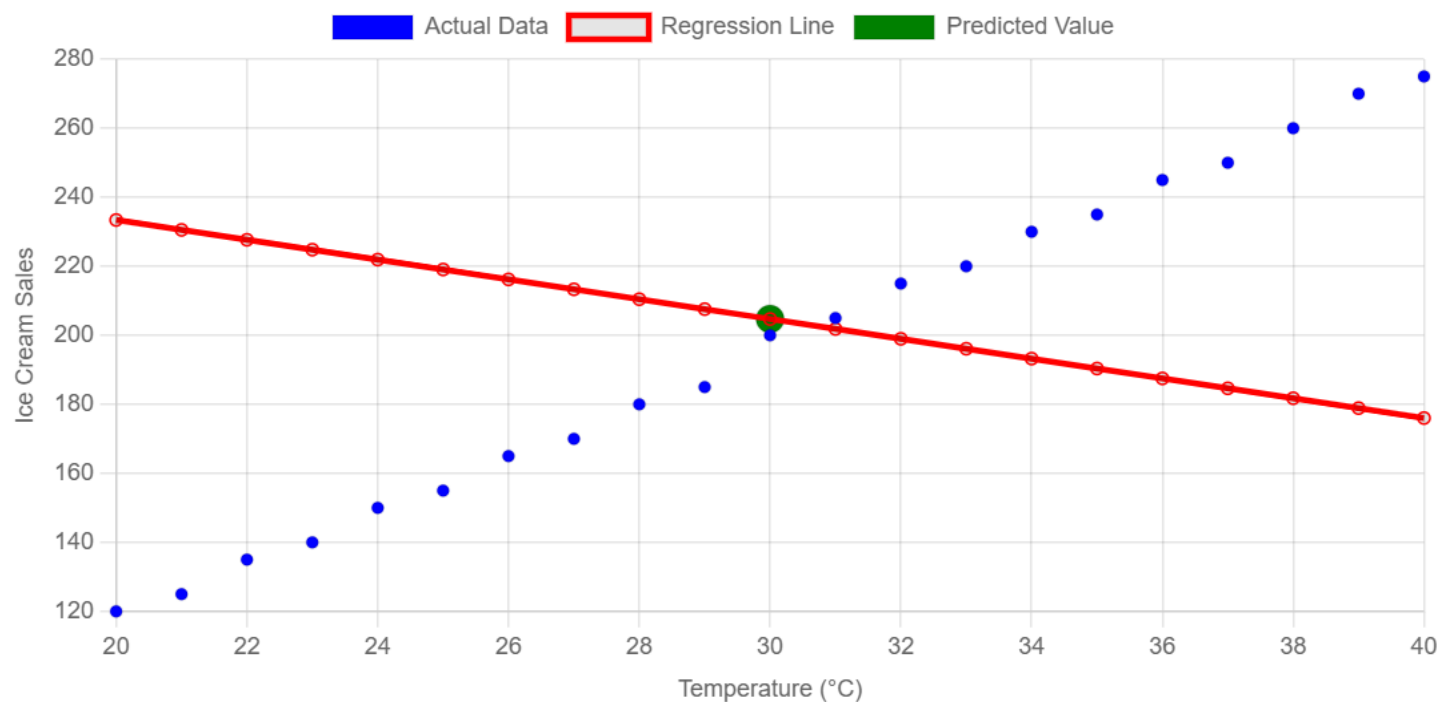
Train Model

Model trained successfully (Learning Rate = 0.01)

30

Predict

Predicted Ice Cream Sales: 204.72 units



20 120
22 135
24 150
26 165
28 180
30 200
32 215
34 230
36 245
38 260
40 275
21 125
23 140
25 155
27 170
29 185
31 205
33 220
35 235
37 250
39 270