ML Prac4

October 18, 2023

0.0.1 Aim: Implement Gradient Descent Algorithm to find the local minima of a function. For example, find the local minima of the function y=(x+3)2 starting from the point x=2.

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1 Gradient Descent Algorithm

```
[3]: x = 2
lr = 0.0047
max_itr = 10000
itr = 0
precision = 0.000001
prev_step_size = 1

gf = lambda x:(x+3)**2
```

```
gd = []
while precision < prev_step_size and itr < max_itr:
    prev = x
    x = x-lr*gf(prev)
    prev_step_size = abs(x-prev)
    itr += 1
    print("Iterations: ", itr, "Values: ", x)
    gd.append(x)</pre>
```

Iterations: 1 Values: 1.8825
Iterations: 2 Values: 1.770457610625
Iterations: 3 Values: 1.6634984612955812
Iterations: 4 Values: 1.5612818371726018
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```
[5]: import matplotlib.pyplot as plt plt.plot(gd)
```

[5]: [<matplotlib.lines.Line2D at 0x7f23e3e1aa40>]

