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Nesteror Acedarated Gradient (Assignment 11):
     3,4
 0.4 3.8
 Step 1: m=1, C=1, N=0,1, epochs=2, 7=0,9, Vm=Vc=0
 Step 2: Ptu=0
 Step 3: 8 amp=1
 step 4: e=1 (4;-mxx-c)2
         9m = 00 = - (41-(m+7Vm)x,- (C+7Vd)x,
              \partial m = -0.44
        9c = de = -(Y,-(m+7/m)x,-(C+7/c)) = -2.2
Step 5: Nm= 7Vm-19m= 0.044
          VC= 7VC-Ngc= 0.22
       m=m+vm=0,044
Step 61
           e= ctvc= 1.22
Step 7:
         Sample = sample +1 = 2
Step 81.
         9f(sample>ns)
            goto step 4
         9m= de =- (12-(m+7vm) x2-(+4vc)) x2 = -0.7
Step 4.
         9c = 00 = - (12-(movm) x2-(c+7vi)) = -1.940
        Vm= 2 vm 19m = 0.1175
Step 51
         Vc= 1v-ngc = 0,3928
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Step 6: m= m+Vn= 1016154 C= C+Vc = 1061285 Step 7: Sample = Sample + 1 = 3 Step e: if (sample > ns) gotonext step Step 9! itel= Thee+1= 1 Step 10: 9+ (ites > epochs) go to step 3 Step 3: Sample = 1 Step 4: 9 = 8 = -(4, -(m+2/m)x, -(c+9/e))x, = =0.23602 9c= = = - (x-(m+2 vm)x,-((+4vc))x,= -1.7281 Step 5: Vm= VVm-v1g= 0.12939 V=7V-119= 6,47158 Step 6: m=m+Vm= 1.29093 C=C+Ve= 2.08443 Step 7: sample = sample +1 = 2 Step 8: if (sample fris) 2 72 96to Step 4 Step 4: 9m = 0 = - (Y2-(m+7 Vm) x2-(C+V2)) x2 = -0.2912 9c= de - (Y2 (m+ YVm)x2-(C+7Vc)) = -0.72818

Vm = 8 Vm - 19 m = 0,145578 VC= 9 VC-V19C=-6,49 724 104365 Step 6! m=m+Vm= C= C+ Vc = 2-58 16 Step 7: Sample-sample+1=3 8 tep 8 ; if (sample>ns) 3 >2 goto next step Step 9: iter=iter+1=2 Step 10! if (ites Zepochs) 222 go to next step Step 11: m, c= 1.4365, 2.8816 MSE- 0.34817608

man 2 31 29 7