winequality-white.csv

num_iters = 2000, rate = 0.0007 Run#: 1 The seed for random thetas initializing: 1 Thetas initial vector: [4.17022005e-01 7.20324493e-01 1.14374817e-04 3.02332573e-1.46755891e-01 9.23385948e-02 1.86260211e-01 3.45560727e-01 3.96767474e-01 5.38816734e-01 4.19194514e-01] COST: 1.273808978115495 Thetas [[4.53193111 0.22214898 -0.09162065 0.03100279 0.02875089 -0.09783848 0.0620798 -0.07623436 -0.17199018 0.29364328 0.09377446]] Last 10 costs [1.28578867 1.2844502 1.28311358 1.28177881 1.2804459 1.27911483 1.27778561 1.27645822 1.27513268 1.27380898] _____ Run#: 2 The seed for random thetas initializing: 1 Thetas initial vector: [4.17022005e-01 7.20324493e-01 1.14374817e-04 3.02332573e-1.46755891e-01 9.23385948e-02 1.86260211e-01 3.45560727e-01 3.96767474e-01 5.38816734e-01 4.19194514e-01] COST: 1.273808978115495 Thetas [[4.53193111 0.22214898 -0.09162065 0.03100279 0.02875089 -0.09783848 0.0620798 -0.07623436 -0.17199018 0.29364328 0.09377446]] Last 10 costs [1.28578867 1.2844502 1.28311358 1.28177881 1.2804459 1.27911483 1.27778561 1.27645822 1.27513268 1.273808981 _____ The seed for random thetas initializing: 6 Thetas initial vector: [0.89286015 0.33197981 0.82122912 0.04169663 0.10765668 0.59505206 0.52981736 0.41880743 0.33540785 0.62251943 0.43814143] COST: 1.144168659220114 Thetas [[4.64921384e+00 1.66648708e-01 1.09549583e-01 1.76911435e-02 3.57373911e-03 1.97611255e-02 2.00729452e-01 -1.61520334e-01 -2.00442315e-01 2.75531152e-01 1.06313861e-0111 1.14760721 1.14645943 1.14531325 1.14416866] _____ The seed for random thetas initializing: 5 Thetas initial vector: [0.22199317 0.87073231 0.20671916 0.91861091 0.48841119 0.61174386 0.76590786 0.51841799 0.2968005 0.18772123 0.08074127COST: 1.328444491574898 Thetas [[4.48386116 0.22435125 -0.00899756 0.17390706 0.17121705 0.02201777 0.22709708 -0.15373254 -0.41164764 0.28584338 0.01897024]] Last 10 costs [1.34133768 1.33989707 1.33845847 1.33702189 1.33558732 1.33415475 1.33272419 1.33129563 1.32986906 1.328444491 The seed for random thetas initializing: 7

Thetas initial vector: [0.07630829 0.77991879 0.43840923 0.72346518 0.97798951

0.53849587

```
0.50112046 0.07205113 0.26843898 0.4998825 0.67923 1
COST: 1.3877842341895896
Thetas [[ 4.44795332  0.27602353  0.04904899  0.14943703  0.46825353  0.0468647
  0.21935881 -0.33878587 -0.53630176 0.37723312 0.19760549]]
Last 10 costs [1.40141538 1.39989234 1.39837143 1.39685264 1.39533596 1.3938214
1.39230895 1.39079861 1.38929037 1.387784231
______
The seed for random thetas initializing: 6
Thetas initial vector: [0.89286015 0.33197981 0.82122912 0.04169663 0.10765668
0.59505206
0.52981736 0.41880743 0.33540785 0.62251943 0.438141431
COST: 1.144168659220114
Thetas [[ 4.64921384e+00    1.66648708e-01    1.09549583e-01    1.76911435e-02
  3.57373911e-03 1.97611255e-02 2.00729452e-01 -1.61520334e-01
 -2.00442315e-01 2.75531152e-01 1.06313861e-01]]
Last 10 costs [1.1545276    1.15337018    1.15221437    1.15106017    1.14990758    1.1487566
1.14760721 1.14645943 1.14531325 1.14416866]
_____
The seed for random thetas initializing: 5
Thetas initial vector: [0.22199317 0.87073231 0.20671916 0.91861091 0.48841119
0.61174386
0.76590786 0.51841799 0.2968005 0.18772123 0.080741271
COST: 1.328444491574898
Thetas [[ 4.48386116  0.22435125 -0.00899756  0.17390706  0.17121705  0.02201777
  0.22709708 -0.15373254 -0.41164764 0.28584338 0.01897024]]
Last 10 costs [1.34133768 1.33989707 1.33845847 1.33702189 1.33558732 1.33415475
1.33272419 1.33129563 1.32986906 1.32844449]
The seed for random thetas initializing: 5
Thetas initial vector: [0.22199317 0.87073231 0.20671916 0.91861091 0.48841119
0.61174386
0.76590786 0.51841799 0.2968005 0.18772123 0.08074127]
COST: 1.328444491574898
Thetas [[ 4.48386116  0.22435125 -0.00899756  0.17390706  0.17121705  0.02201777
  0.22709708 -0.15373254 -0.41164764 0.28584338 0.01897024]]
Last 10 costs [1.34133768 1.33989707 1.33845847 1.33702189 1.33558732 1.33415475
1.33272419 1.33129563 1.32986906 1.32844449]
_____
Run#: 9
The seed for random thetas initializing: 4
Thetas initial vector: [0.96702984 0.54723225 0.97268436 0.71481599 0.69772882
0.97627445 0.00623026 0.25298236 0.43479153 0.779382921
COST: 1.1558854297811216
                    0.20215902 \quad 0.22928577 \quad 0.19753077 \quad 0.29307544 \quad -0.06784451
Thetas [[ 4.6674949
  0.43669762 -0.46655145 -0.39695292 0.29799386 0.22734764]]
Last 10 costs [1.16613765 1.16499224 1.1638484 1.16270613 1.16156543 1.1604263
1.15928874 1.15815274 1.15701831 1.15588543]
______
Run#: 10
The seed for random thetas initializing: 2
Thetas initial vector: [0.4359949 0.02592623 0.54966248 0.43532239 0.4203678
0.33033482
0.20464863 0.61927097 0.29965467 0.26682728 0.62113383]
```

COST: 1.2474205565734533

Thetas [[4.53660748 -0.03172272 0.02794014 0.13517433 0.13096368 -0.06788827

-0.00819948 0.00848152 -0.2979305 0.12716612 0.16362574]]

Last 10 costs [1.25930174 1.2579742 1.25664851 1.25532469 1.25400271 1.25268259 1.25136432 1.25004789 1.2487333 1.24742056]

