

Ον/νυμο: Αναγνωστάκης Εμμανουήλ

ΑΜ: 3618

1.2.1

Υπάρχουν 4680 datapoints.

1.2.2

1969,43.071036,-4.035391,23.572293,12.923576,-2.545036,5.052395,9.238151,-
4.345975,5.224104,2.935664,-2.752638,1.729396

1982,45.800256,41.148987,57.599295,5.695314,0.979893,-7.360076,-10.917191,-
0.462272,-0.299410,-2.340378,0.261616,-2.427598

2007,50.251554,27.845584,47.091303,11.080036,-43.505351,-17.997253,-5.284150,-
11.754643,10.512851,2.192458,5.448426,1.704516

1984,40.643545,6.281908,34.655208,-1.296938,-32.762731,-14.612497,7.706492,-
8.353410,10.384000,-1.954814,-0.409230,-4.850200

1986,45.747148,44.700684,22.545370,9.917018,10.745384,-13.228769,4.922118,-
4.376980,20.309863,2.365600,1.039252,-2.439896

1.3.3

1969.0

1.3.4

[43.071036,-4.035391,23.572293,12.923576,-2.545036,5.052395,9.238151,-
4.345975,5.224104,2.935664,-2.752638,1.729396]

1.3.5

1.3.6

minLabel: Double = 1926.0

maxLabel: Double = 2010.0

1.4.2

minSLabel: Double = 0.0

maxSLabel: Double = 84.0

1.5.3

Ναι, $3805 + 431 + 444 = 4680$.

2.1.1

71.1101182654402

2.3.2

11.782376875997379

11.699021383061899

10.812175302914214

3.3.3

Ναι, το gradient converge κάνει converge.

3.3.4

Το alpha είναι η υπεύθυνη μεταβλητή για το converging.

3.3.5

Alpha = 1.0E-10

Number of iterations = 50

4.1.1

Coefficients: [0.6722721196984465,-0.03945829104846631,-
0.07840687404445364,0.09928441336757421,0.02201976859579638,-
0.19259729263117187,-0.02934836483389203,-0.08969239313564993,-
0.155430938978094,0.19178259276186718,-
0.3929000382472105,0.020940276059481226] Intercept: 41.1396580836632

4.1.2

10.860122335255024

4.2.1

10.852753152895911

4.2.2

Reg = 0.4

5.3

10.725283265796316

5.4.1

Baseline = 10.538214373218919

New = 10.278891117762491

5.4.2

72.98578952054821|

| 66.64454871713272 |
| 69.05627015812328 |
| 75.45727400891293 |
| 75.70353449441822 |
| 72.7598549994463 |
| 75.69360503978291 |
| 74.19668901543112 |
| 70.2453224812117 |
| 65.67245693796923 |
| 72.60058942029877 |
| 67.07246258390563 |
| 71.33483077338326 |
| 79.44854454205691 |
| 74.32623718375027 |
| 67.63092350990192 |
| 58.552086581094066 |
| 70.03058673007773 |
| 65.33258457399128 |
| 74.4033092842695 |
| 79.37182478643145 |
| 75.36421380799314 |
| 71.3513828139665 |
| 79.90760383152382 |
| 61.8092332849141 |
| 67.07169223506128 |
| 65.19040935945975 |
| 66.69999893243286 |

| 73.84281913986857|
| 70.43385187124515|
| 66.4133030015854|
| 67.04943468170111|
| 76.05971220638708|
| 69.3930760876552|
|60.151564376723975|
| 76.61541991666341|
| 55.6059427560033|
| 66.12889191054983|
| 74.43155941130887|
| 72.61273544515406|
| 69.73688759999162|
| 73.20853772118144|
| 66.58922961561754|
| 67.12096662973461|
| 69.6129943018733|
| 76.59053846357546|
| 73.89166345916169|
| 70.63199702376473|
| 67.34792627316224|
| 71.56880399605734|

5.5

10.278891117762491