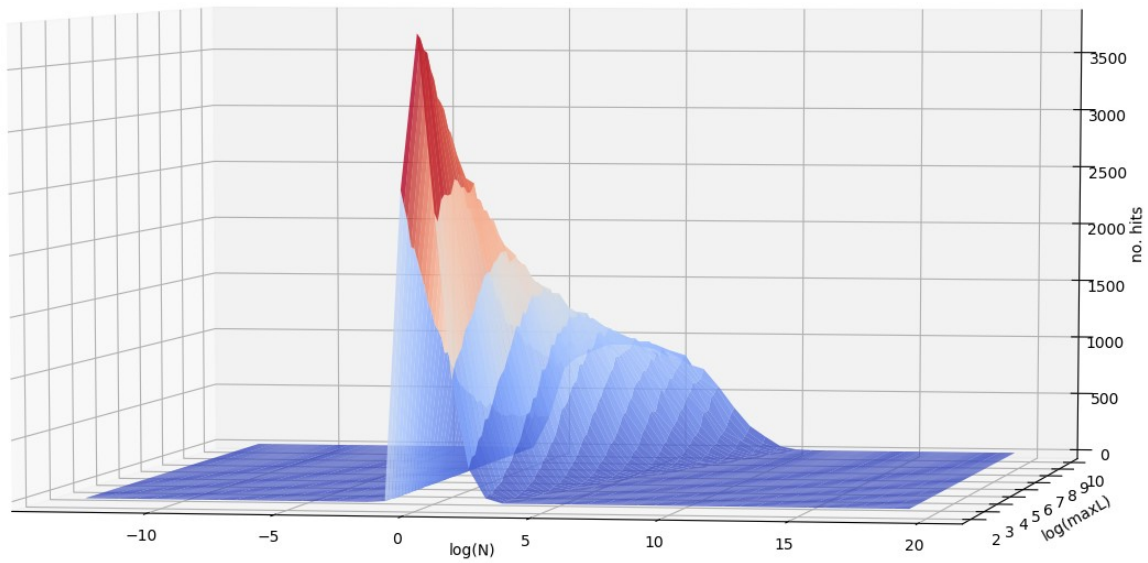


Clustering and Boxplots



Blue: Cluster 1
Light Blue: Cluster 2
Orange: Cluster 3
Red: Cluster 4

Parameter 0: N
Parameter 1: rStar
Parameter 2: fPlanets
Parameter 3: nEnvironment
Parameter 4: fLife
Parameter 5: fIntelligence
Parameter 6: fCivilization
Parameter 7: Longevity
Parameter 8: Max Longevity

Dataset: 480000 points from points.csv

Cluster 1 no. of points: 177222
Cluster 2 no. of points: 140399
Cluster 3 no. of points: 77324
Cluster 4 no. of points: 85055

BoxPlots:

<https://drive.google.com/open?id=1A3dDQbs959a3KCsUn7tqk0pbHI9DpgbT>

Note:

Dashed line = Mean value

Clustering and Boxplots

Parameter 0:

C1	Mean: 9932117.256689172	Std: 236160623.40908676
C2	Mean: 1319.1818201971937	Std: 3421.50764272983
C3	Mean: 58.789697769032706	Std: 74.87799351515199
C4	Mean: 15.126214488428166	Std: 15.000908551809921

Parameter 1:

C1	Mean: 24.989164146723912	Std: 26.662352533129344
C2	Mean: 23.549947280605746	Std: 25.640700089670954
C3	Mean: 24.429346051642593	Std: 25.85453137255806
C4	Mean: 26.99938401381931	Std: 26.480983792998305

Parameter 2:

C1	Mean: 0.4100605924091535	Std: 0.2539708077738993
C2	Mean: 0.40267768073004795	Std: 0.25124047937171834
C3	Mean: 0.40834959124366305	Std: 0.2521121410310975
C4	Mean: 0.42059010024859206	Std: 0.2540937701494048

Parameter 3:

C1	Mean: 0.409344280571797	Std: 0.2545665083552744
C2	Mean: 0.40289563374853804	Std: 0.2517538637794287
C3	Mean: 0.4072804602792794	Std: 0.2520417997497237
C4	Mean: 0.419605513483593	Std: 0.25370243200983433

Parameter 4:

C1	Mean: 0.9821584239029644	Std: 0.12499537848202771
C2	Mean: 0.9862521683919262	Std: 0.10826954014856144
C3	Mean: 0.9906174355064972	Std: 0.08613214485427866
C4	Mean: 0.9935502433060139	Std: 0.07000781644398575

Parameter 5:

C1	Mean: 0.18793557483314713	Std: 0.2555743054095285
C2	Mean: 0.16783124628000198	Std: 0.2386375096030768
C3	Mean: 0.17403990623719673	Std: 0.23609612524730378
C4	Mean: 0.21702040095972014	Std: 0.2510966604111671

Parameter 6:

C1	Mean: 0.2581075063710995	Std: 0.26541216428122083
C2	Mean: 0.23703426825728105	Std: 0.25637543127075385
C3	Mean: 0.24801106748903318	Std: 0.25778823536752077
C4	Mean: 0.2708883399485039	Std: 0.26437402301653984

Parameter 7:

C1	Mean: 1450.295297940053	Std: 3335.1305053237998
C2	Mean: 1567576.0808263044	Std: 9985282.481810316
C3	Mean: 23240.925082960068	Std: 73213.07455731879
C4	Mean: 109681867.96065034	Std: 554123505.4595914

Parameter 8:

C1	Mean: 1706267823.27065	Std: 2732191398.8817883
C2	Mean: 42740123.07422156	Std: 94410294.57292385
C3	Mean: 211511.24639750252	Std: 304713.76628723973
C4	Mean: 6247.723278796103	Std: 9584.558586821744