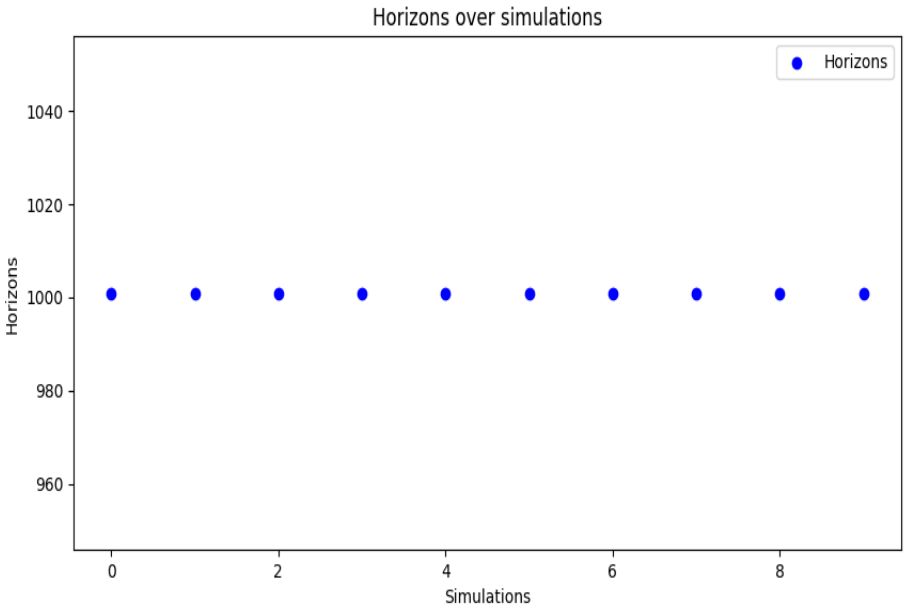
Test done 2025_04_16 at 14_33_00

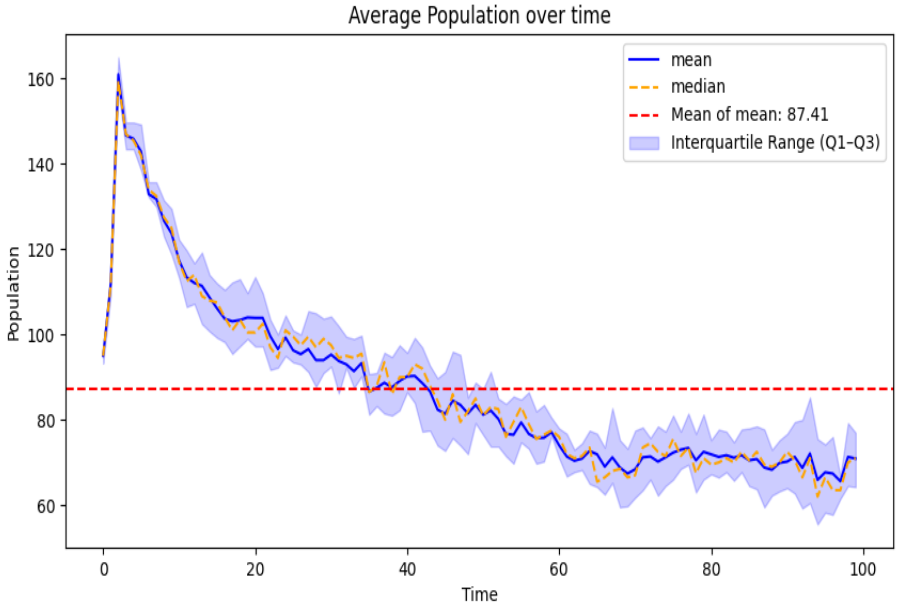
Number of simulation done : 10. The window time of the simulation is 10

Initial condition

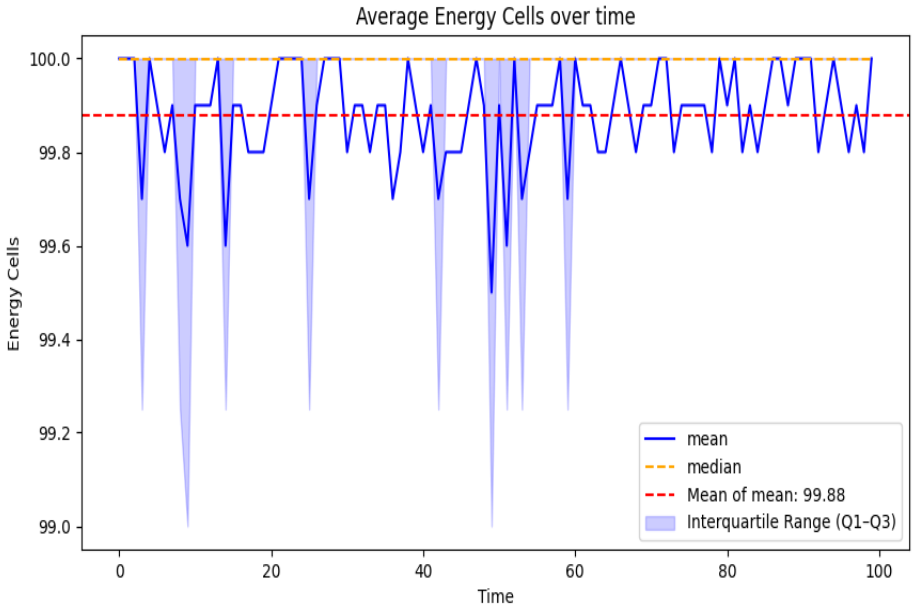
Size : 100
I_Energy : 100
I_Age : 100
I_Maturity : 18
I_Distr : Uniform
Radius : 4
Active : 100
C_Min : 10
C_Max : 120
C_Regen : 15
C_Distr : Uniform
Height : 100
Width : 100
P_Distr : Uniform
Move : 1
Eat : 1
Rest : 0
Reproduce : 5
N_Simulations : 10
Seed : 37
Energy Needed : 0.6
Extra Energy : 0.2
Energy Requeste : 0.5
Mutation Rate : 0.1



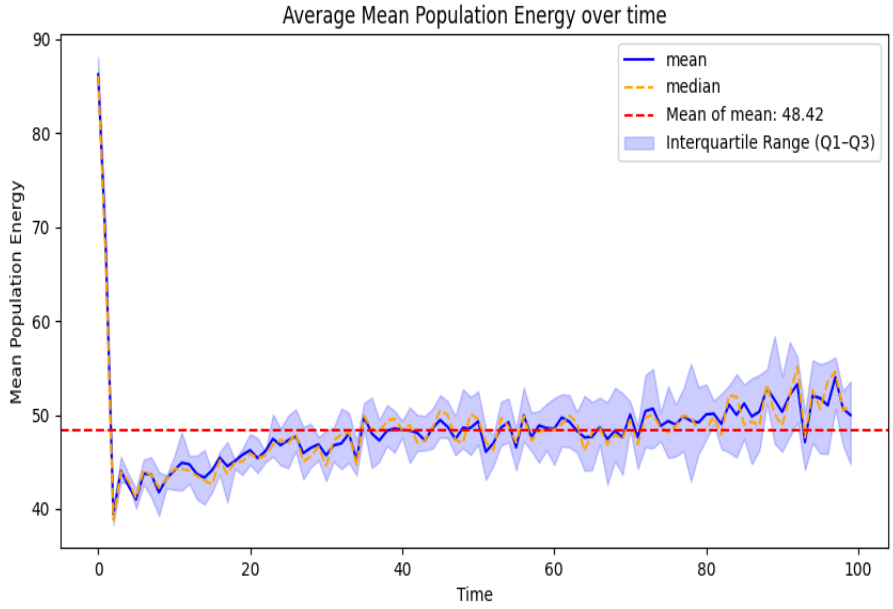
Mean : 1001.0
Variance : 0.0



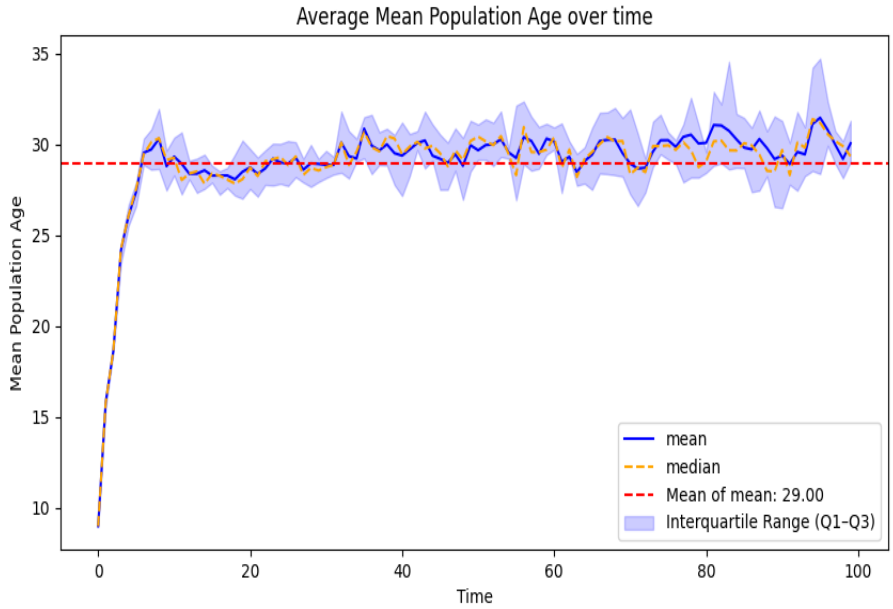
Mean : 87.40699999999998
Variance : 417.008051



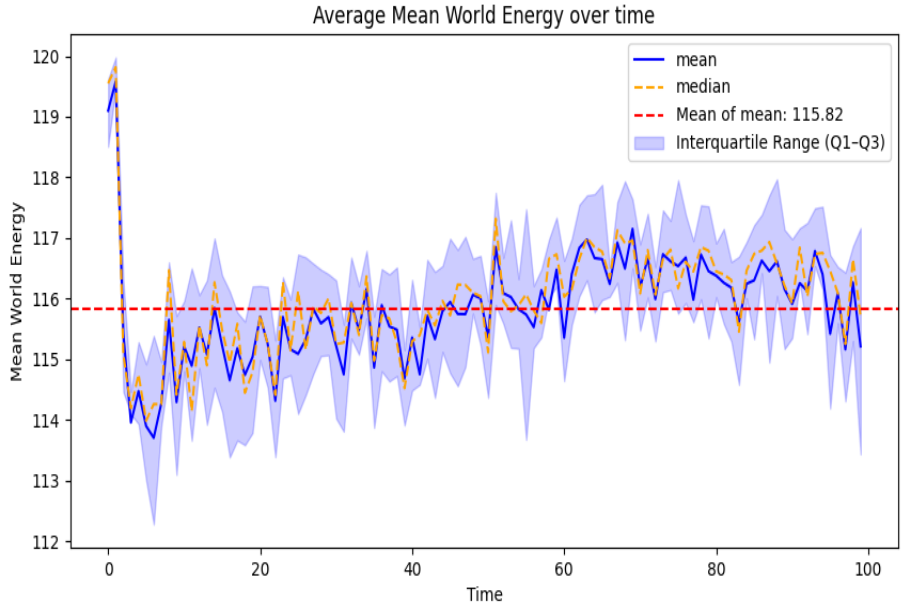
Mean : 99.87999999999998
Variance : 0.011800000000000213



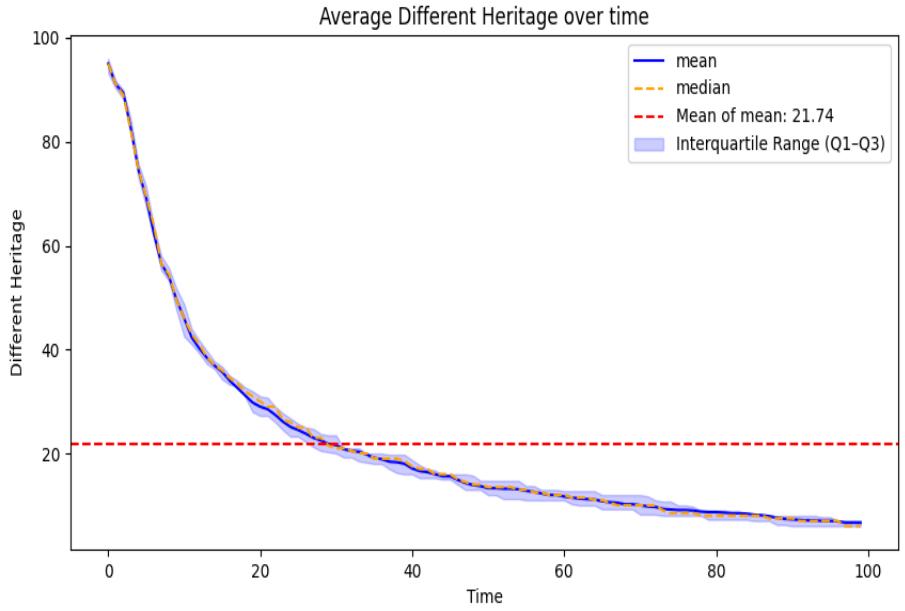
Mean : 48.417726861951245
Variance : 25.397390231687318



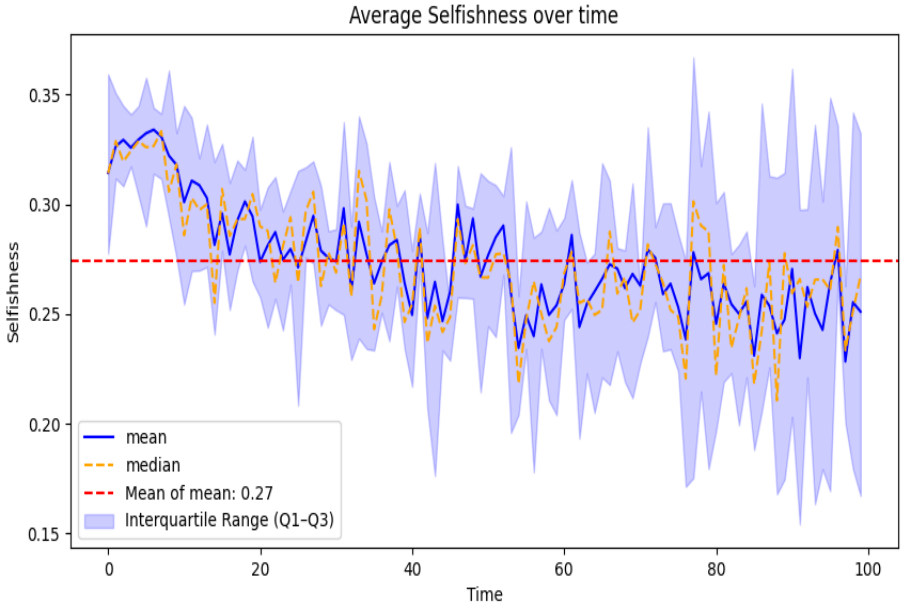
Mean : 28.997890180747973
Variance : 7.962647524049515



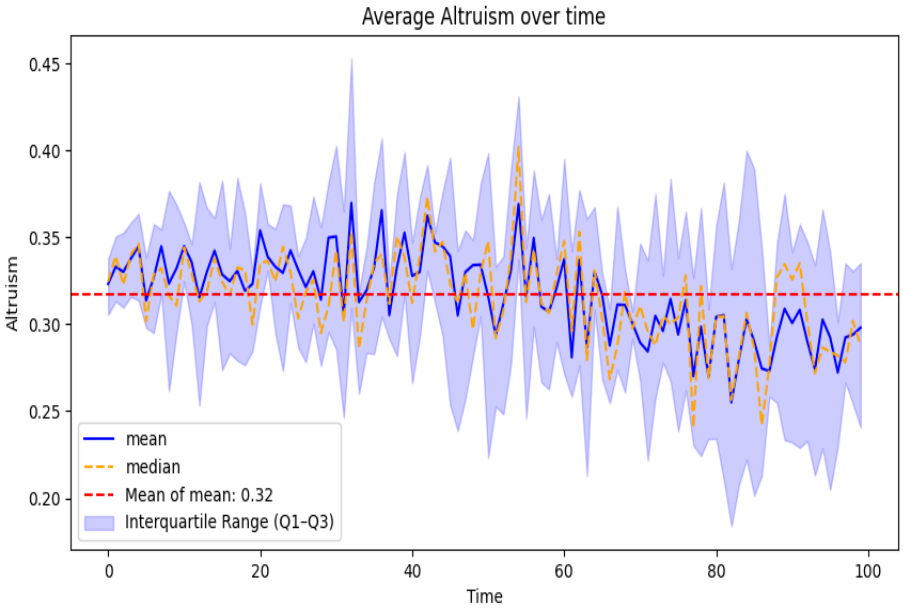
Mean : 115.82433588583014
Variance : 0.792494750098497



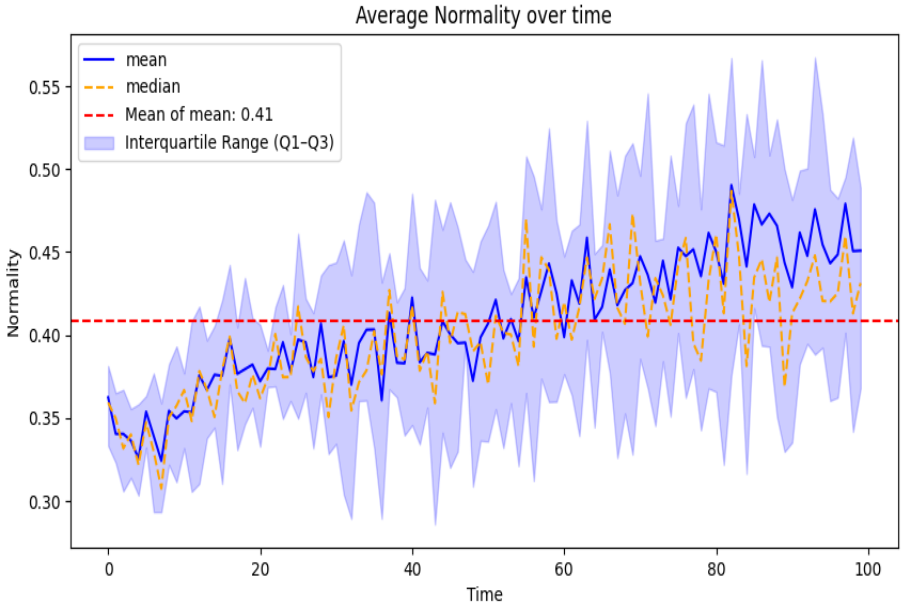
Mean : 21.740999999999996
Variance : 388.4626189999999



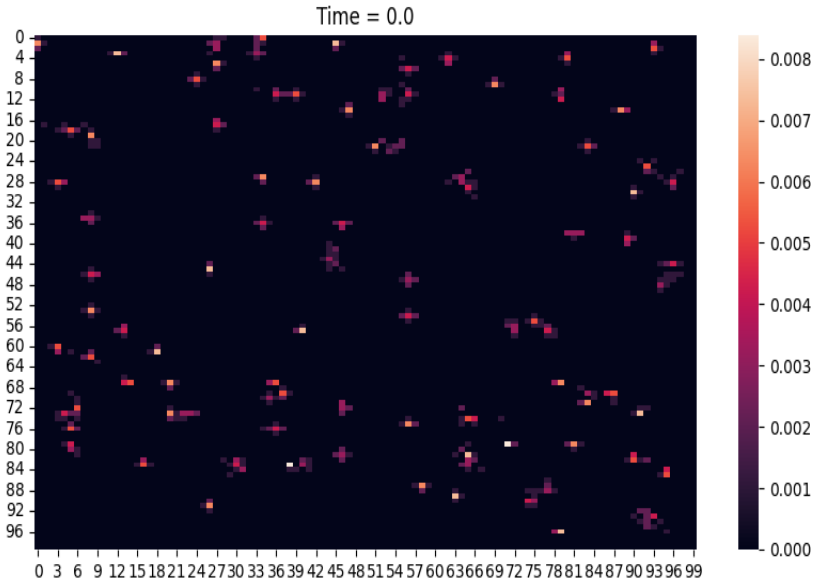
Mean : 0.2742000385900795
Variance : 0.000621281253435673

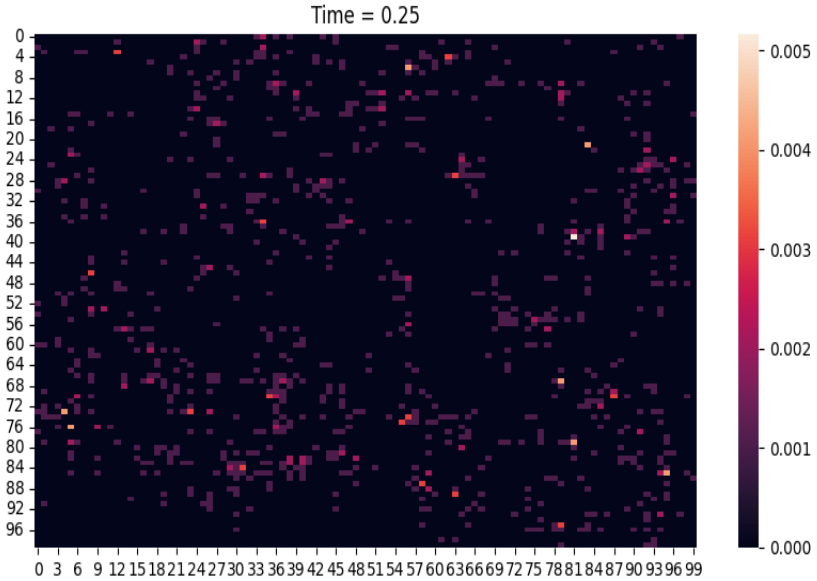


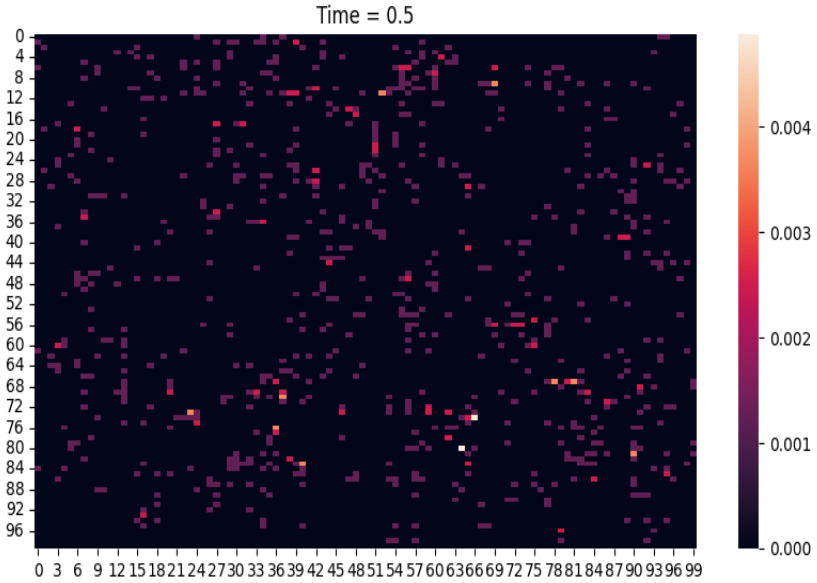
Mean : 0.3172452144514055
Variance : 0.0005816107038163595

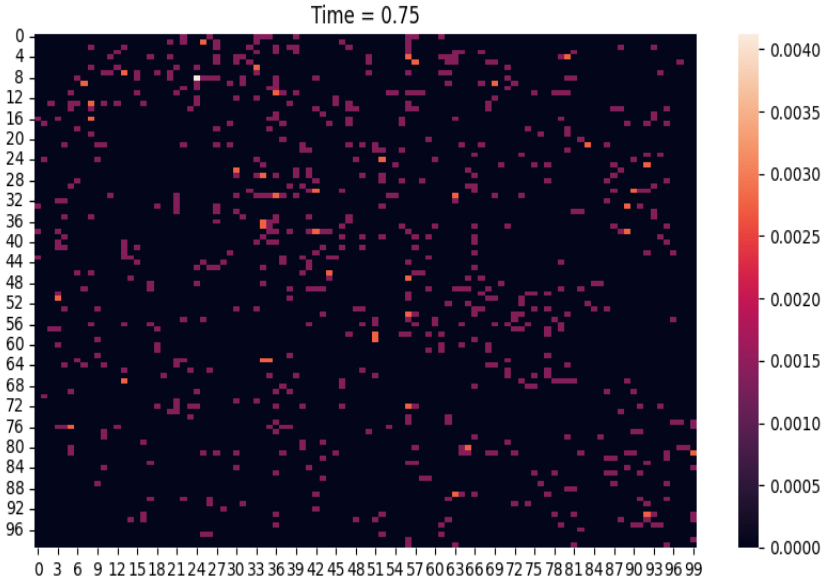


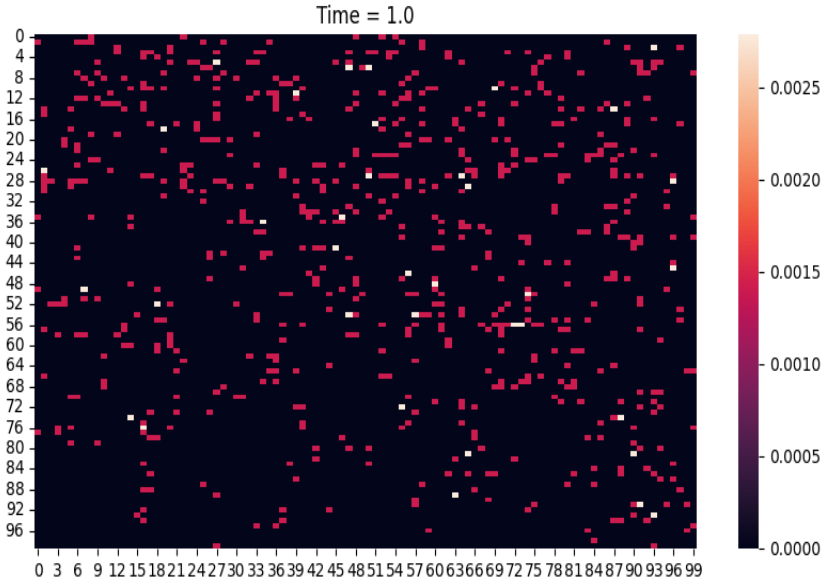
Mean : 0.4085547469585149
Variance : 0.0014941989113757758
Spatial Distribution Density Heatmap




Time = 0.25
0 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64 68 72 76 80 84 88 92 96
0 3 6 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54 57 60 63 66 69 72 75 78 81 84 87 90 93 96 99
0.005
0.004
0.003
0.002
0.001
0.000


Time = 0.5
0 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64 68 72 76 80 84 88 92 96
0 3 6 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54 57 60 63 66 69 72 75 78 81 84 87 90 93 96 99
0.004
0.003
0.002
0.001
0.000





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Year : 2024/2025
This Project is done for the academic purpose of implementing the practical part of the Degree Thesis in Artificial Intelligence and Data Analytics.