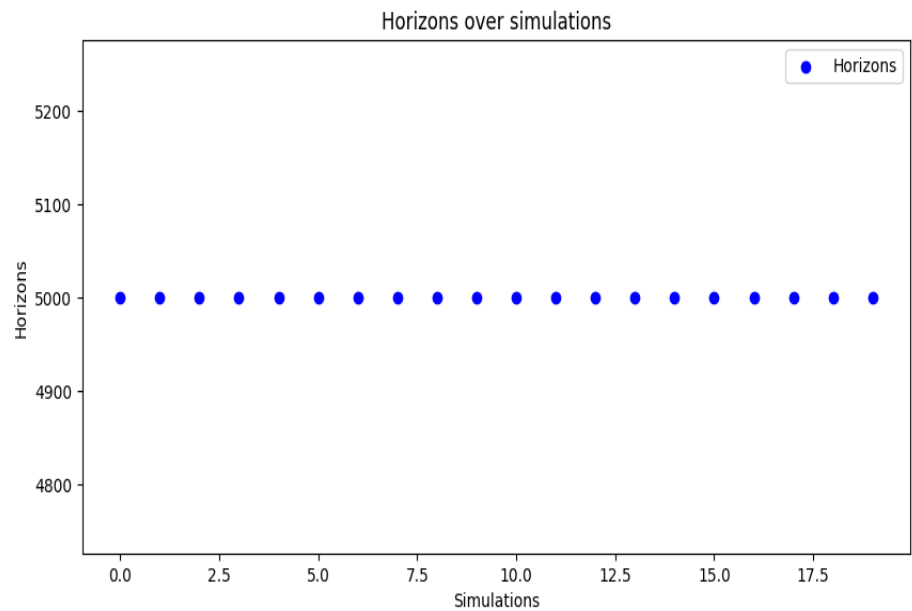


Test done 2025_04_23 at 12_42_17

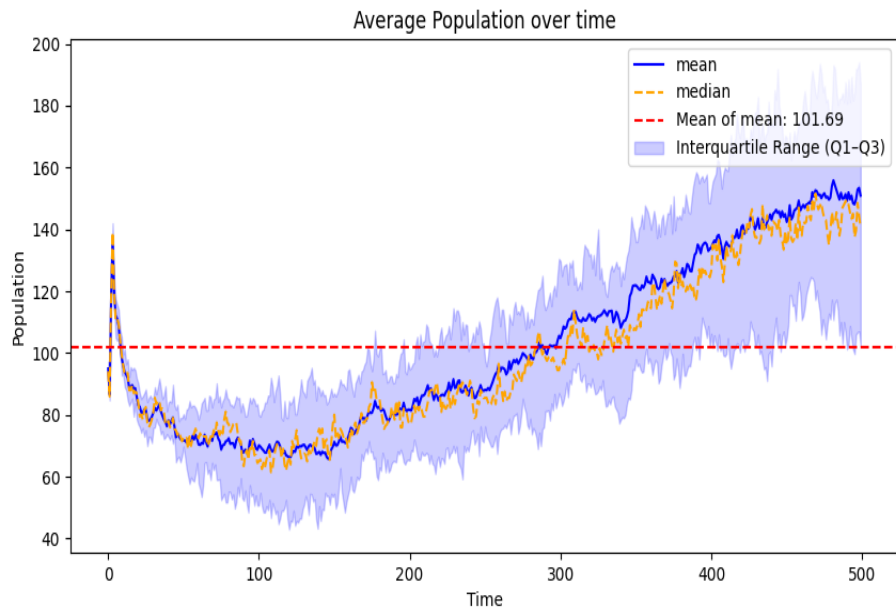
Number of simulation done : 20. The window time of the simulation is 10

Initial condition

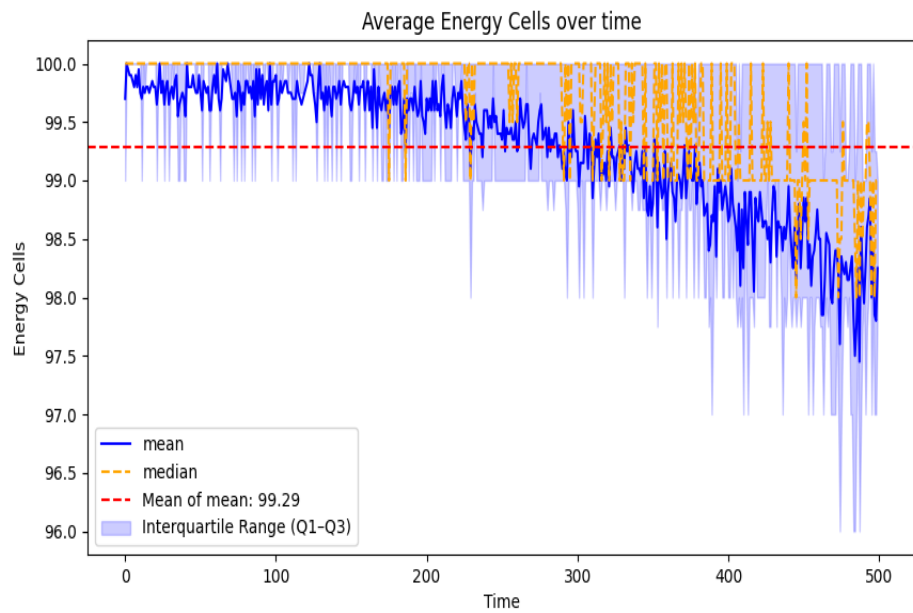
Size : 100
I_Energy : 120
I_Age : 120
I_Maturity : 25
I_Distr : Uniform
Radius : 5
Active : 100
C_Min : 30
C_Max : 150
C_Regen : 15
C_Distr : Uniform
Height : 100
Width : 100
P_Distr : Uniform
Move : 1
Eat : 0
Rest : 0
Reproduce : 15
N_Simulations : 20
Seed : 1
Energy Needed : 0.6
Extra Energy : 0.2
Energy Requeste : 0.5
Mutation Rate : 0.1



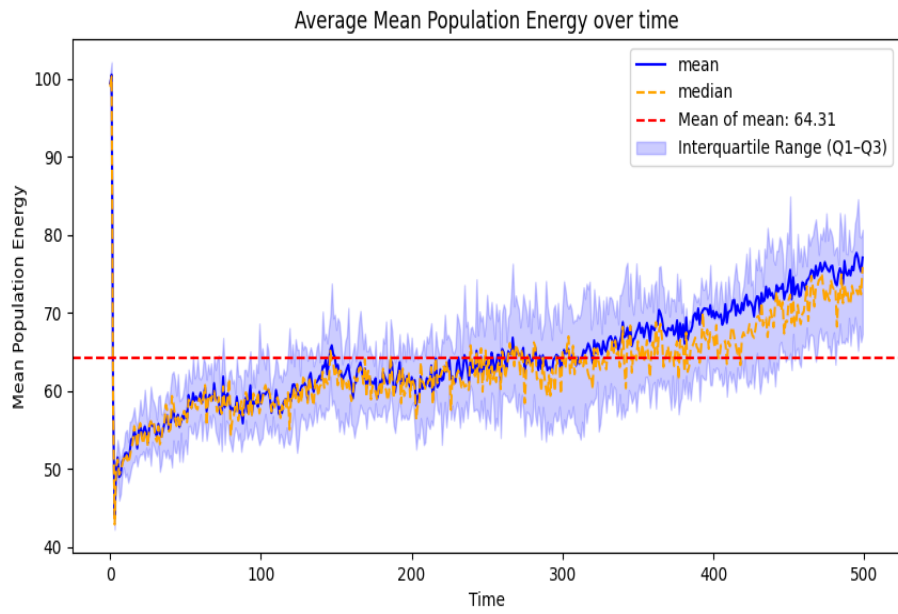
Mean : 5001.0
Variance : 0.0



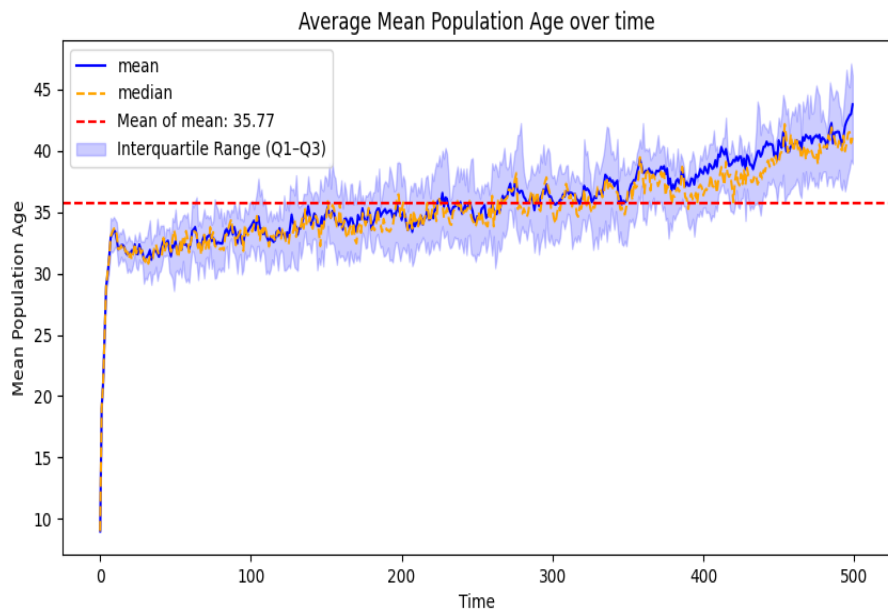
Mean : 101.69170000000001
Variance : 778.0593761099998



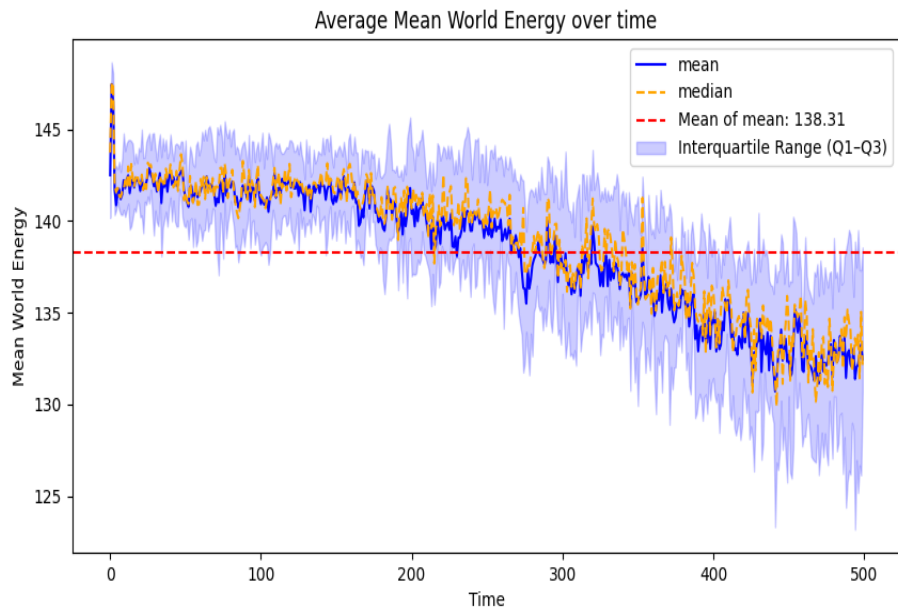
Mean : 99.2861
Variance : 0.3002517899999999



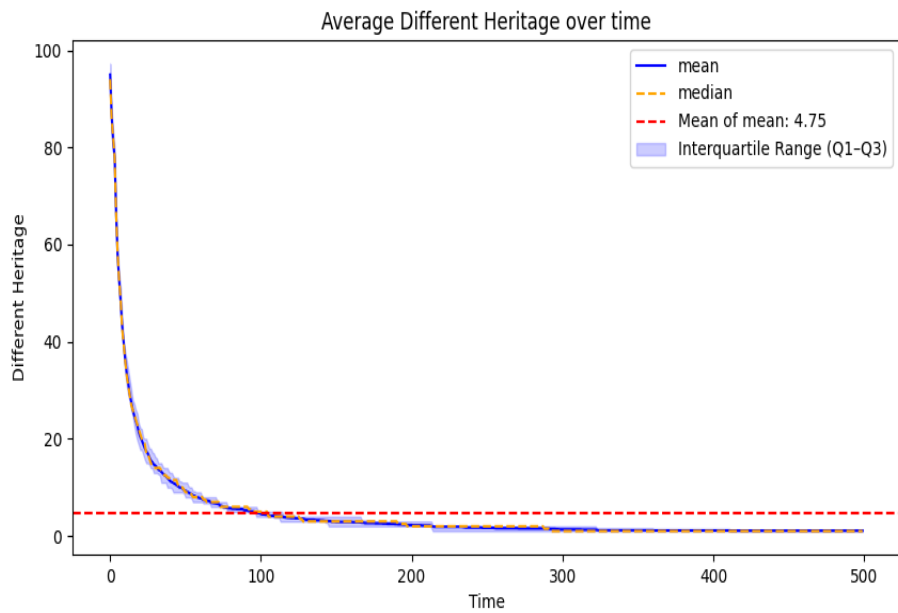
Mean : 64.31493277486445
Variance : 41.18788633769319



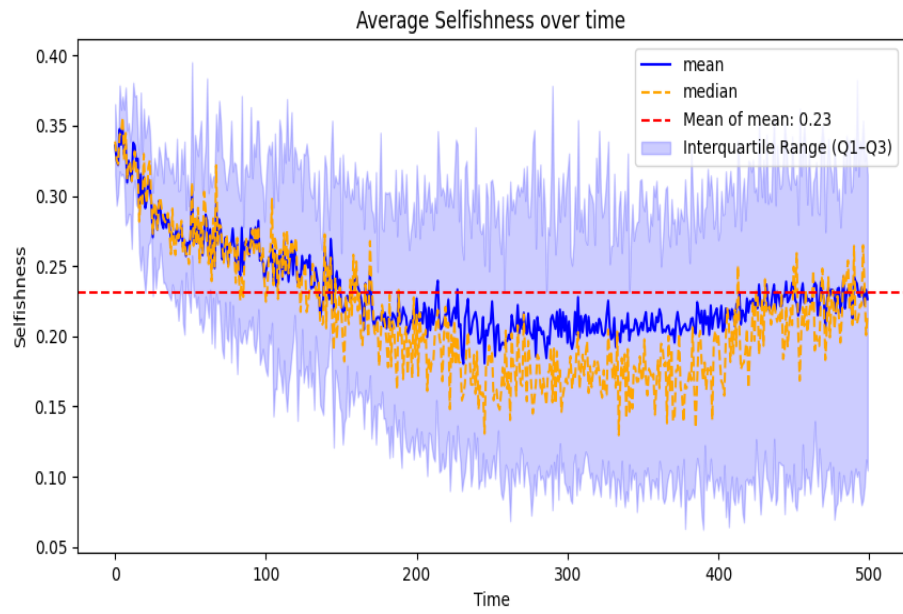
Mean : 35.77450626446312
Variance : 10.62023608021961



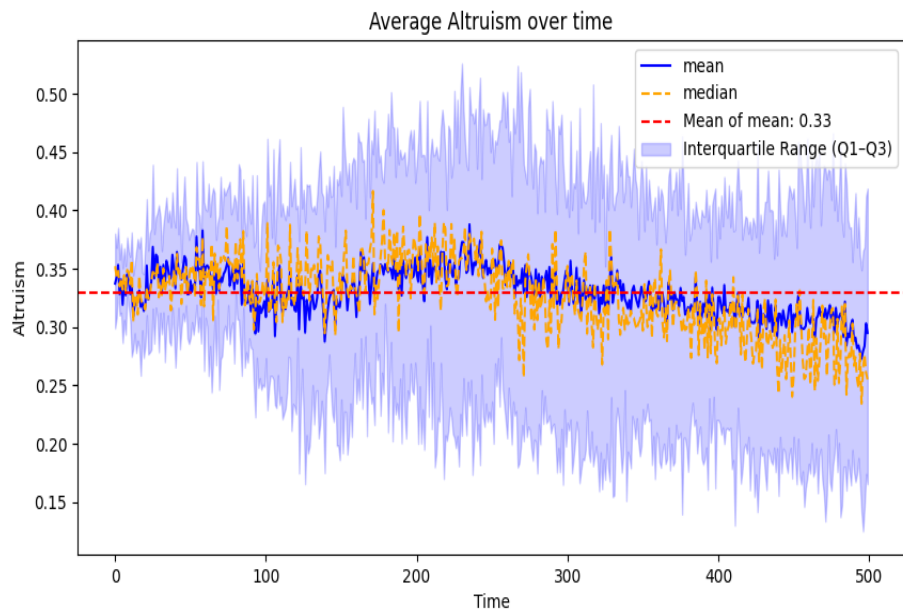
Mean : 138.3145494273411
Variance : 12.098575724439211



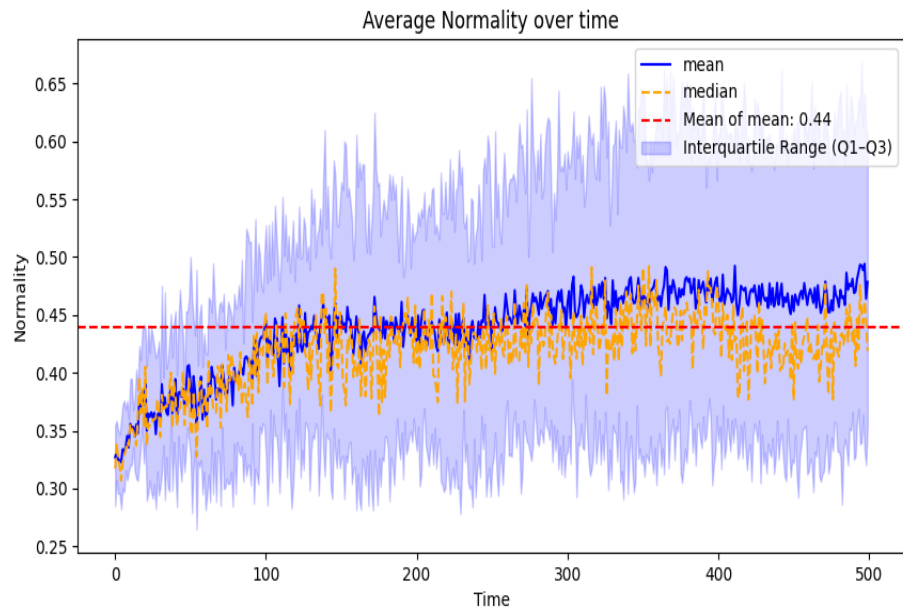
Mean : 4.7537
Variance : 103.10808131



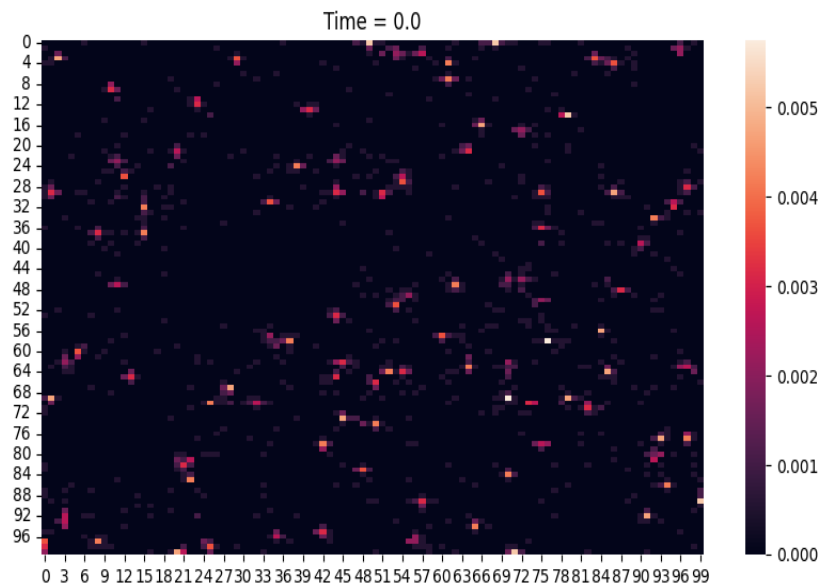
Mean : 0.23100206701609893
Variance : 0.0009993134230297162

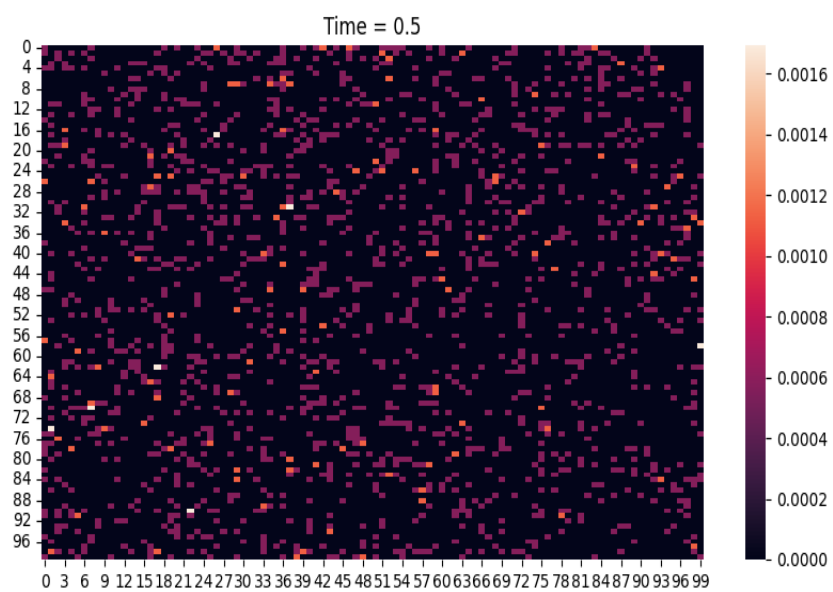
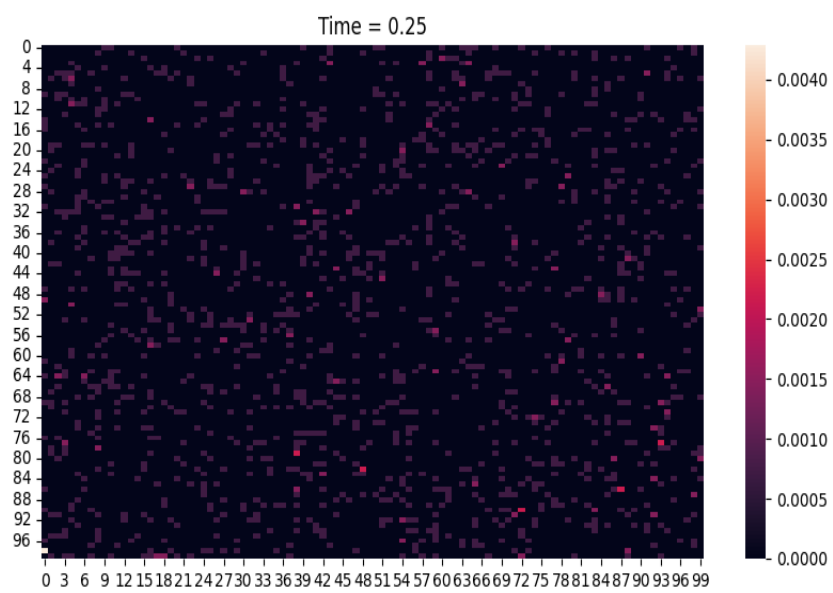


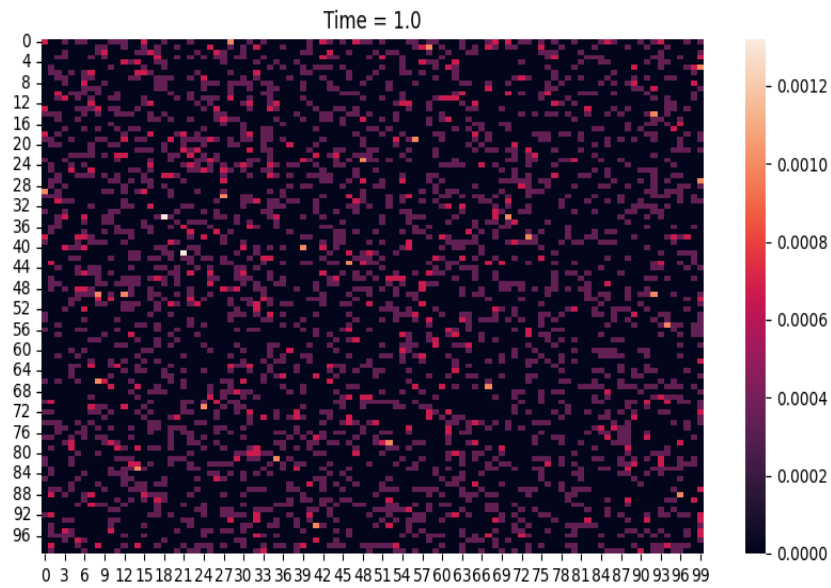
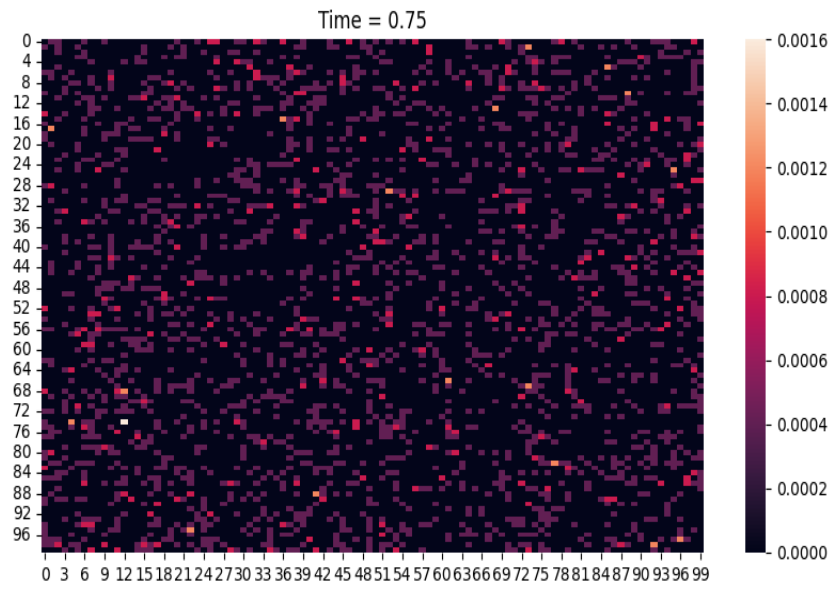
Mean : 0.32999678696270834
Variance : 0.0003867898699499841



Mean : 0.4390011460211927
Variance : 0.0013142828366834282
Spatial Distribution Density Heatmap







Author : Francesco Bredariol

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.