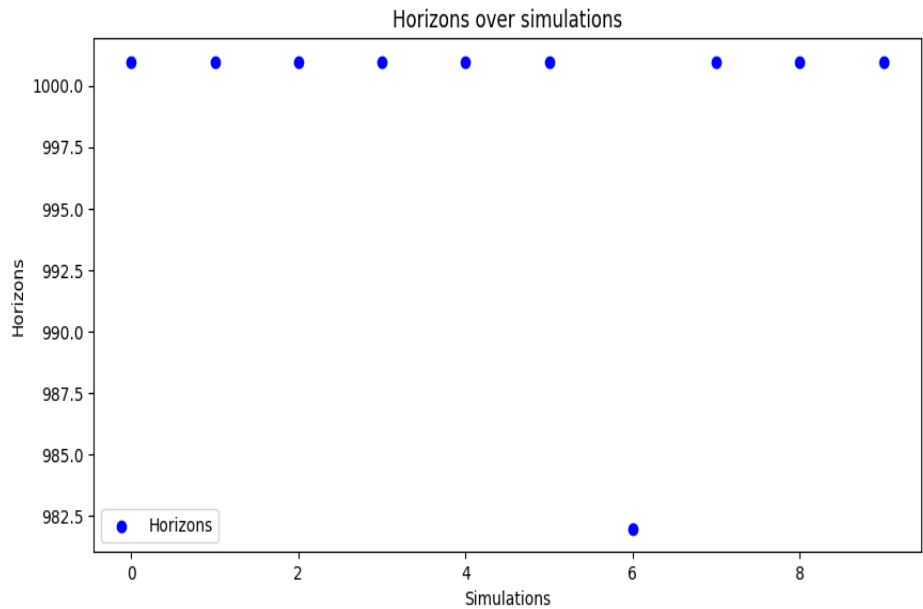


Test done 2025\_04\_22 at 14\_18\_21

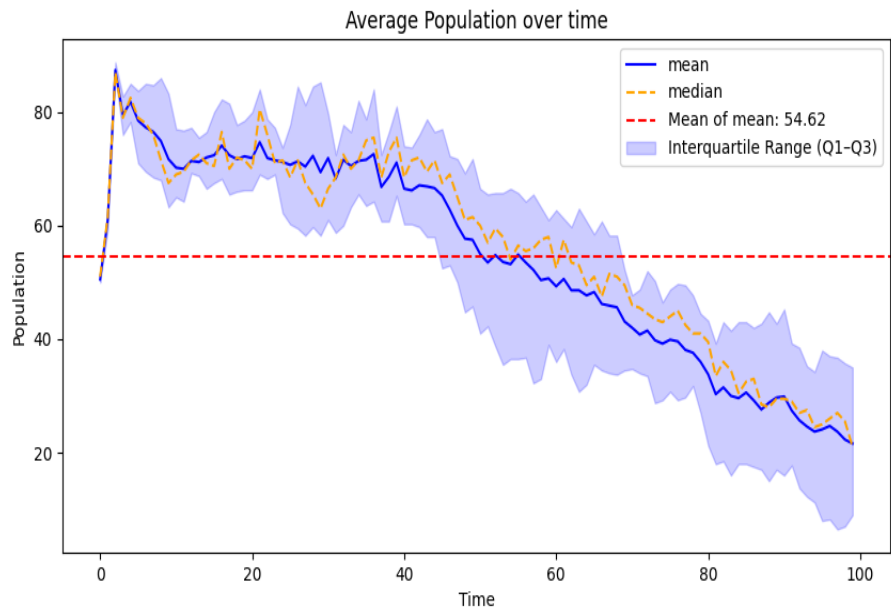
Number of simulation done : 10. The window time of the simulation is 10

Initial condition

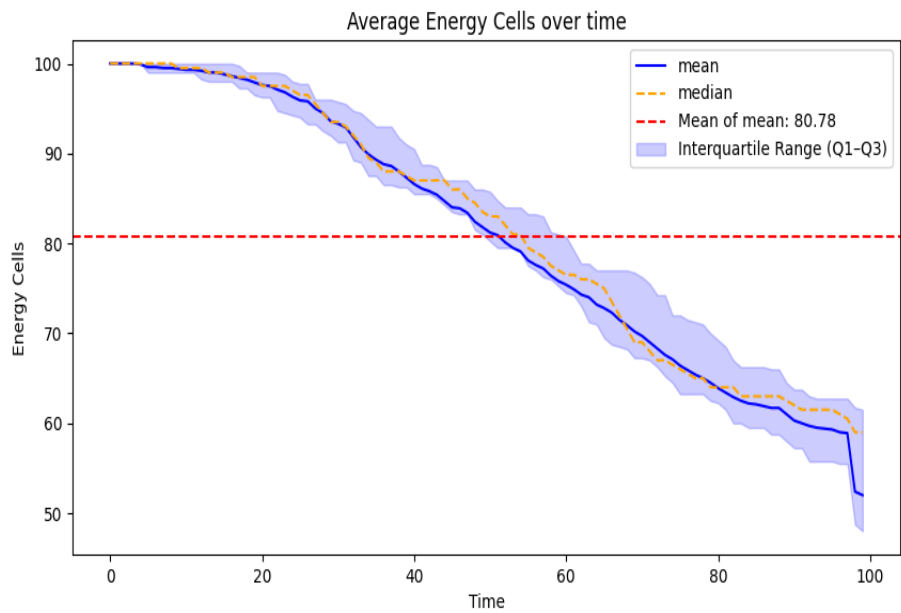
Size : 51  
I\_Energy : 100  
I\_Age : 100  
I\_Maturity : 18  
I\_Distr : Uniform  
Radius : 4  
Active : 100  
C\_Min : 10  
C\_Max : 150  
C\_Regen : 20  
C\_Distr : Uniform no regen  
Height : 100  
Width : 100  
P\_Distr : Uniform  
Move : 1  
Eat : 1  
Rest : 0  
Reproduce : 15  
N\_Simulations : 10  
Seed : 45  
Energy Needed : 0.6  
Extra Energy : 0.2  
Energy Requeste : 0.5  
Mutation Rate : 0.1



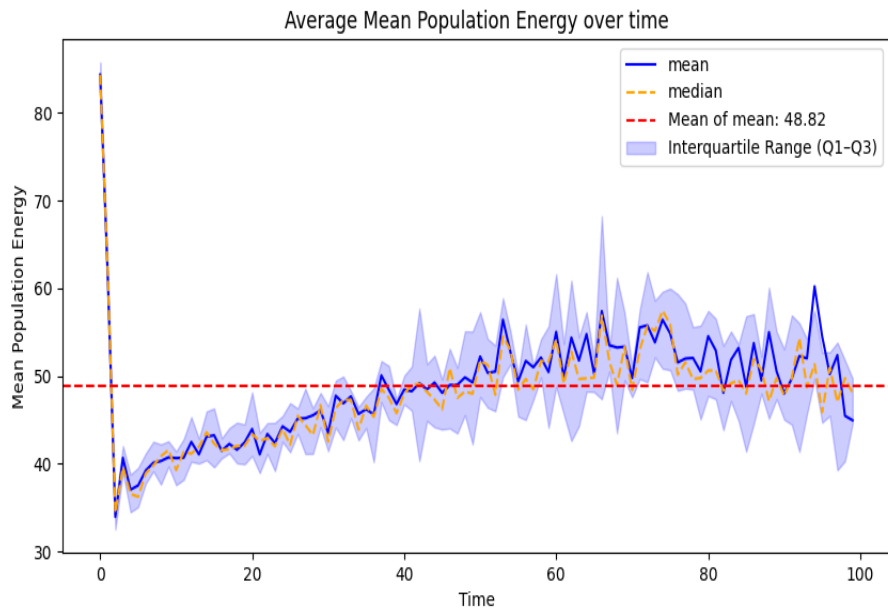
Mean : 999.1  
Variance : 32.489999999999995



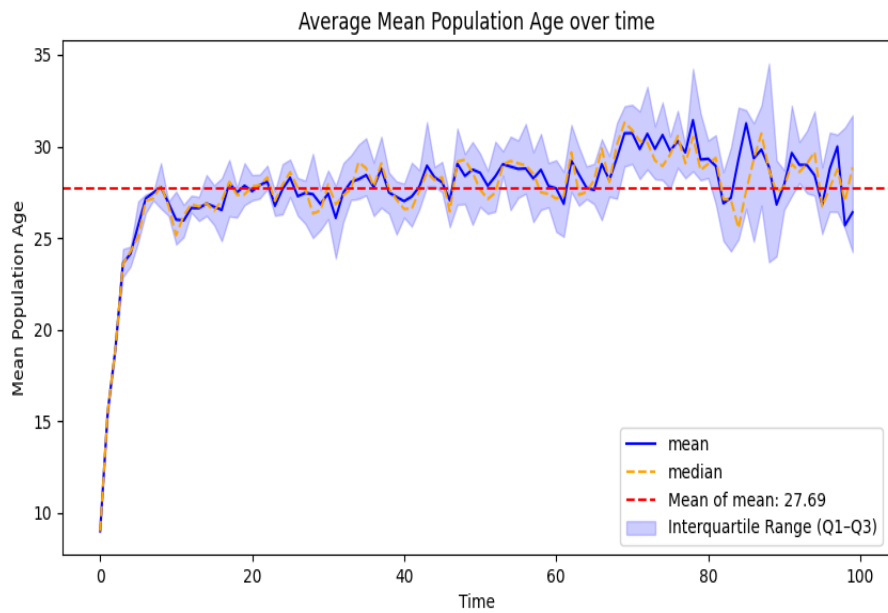
Mean : 54.62000000000001  
Variance : 320.0927999999999



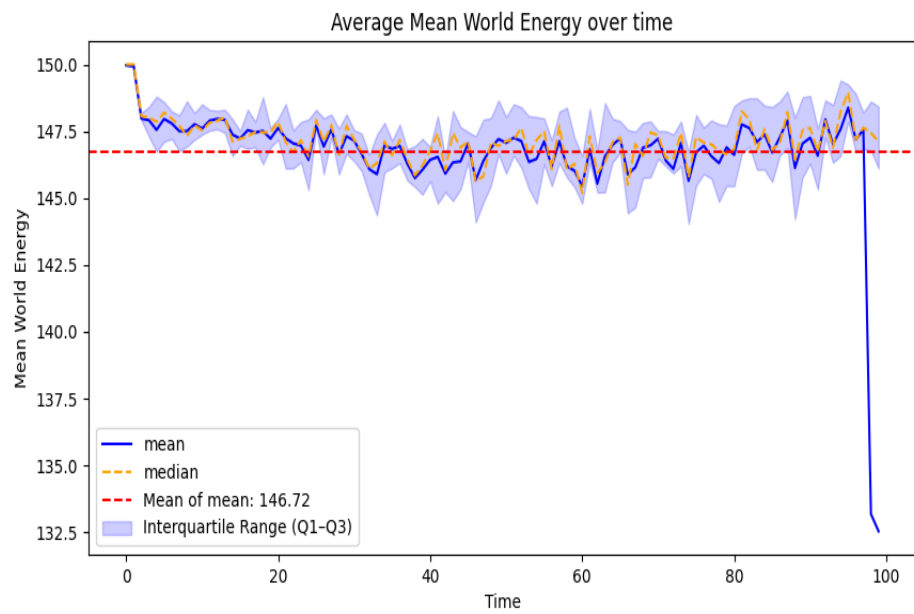
Mean : 80.78099999999999  
Variance : 215.67993899999993



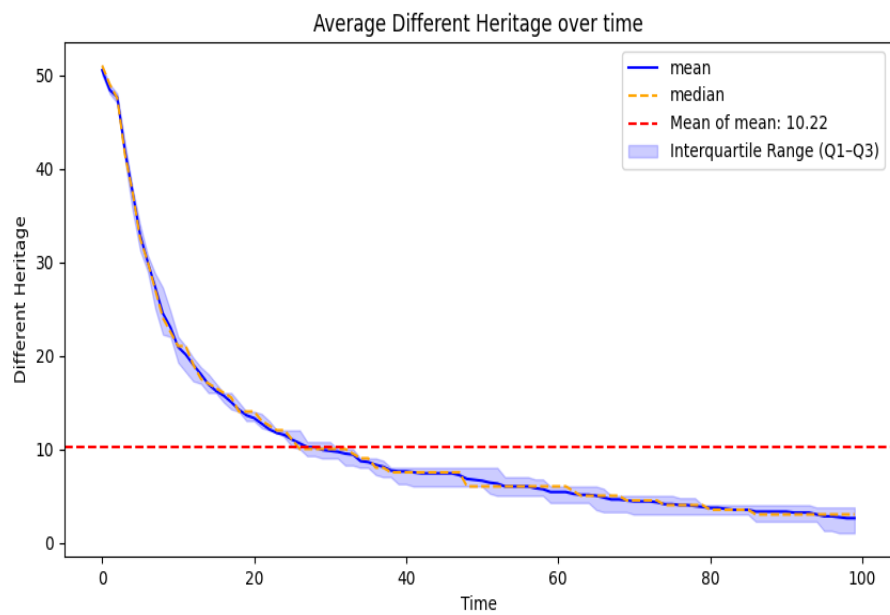
Mean : 48.82434643633598  
Variance : 40.706565227727694



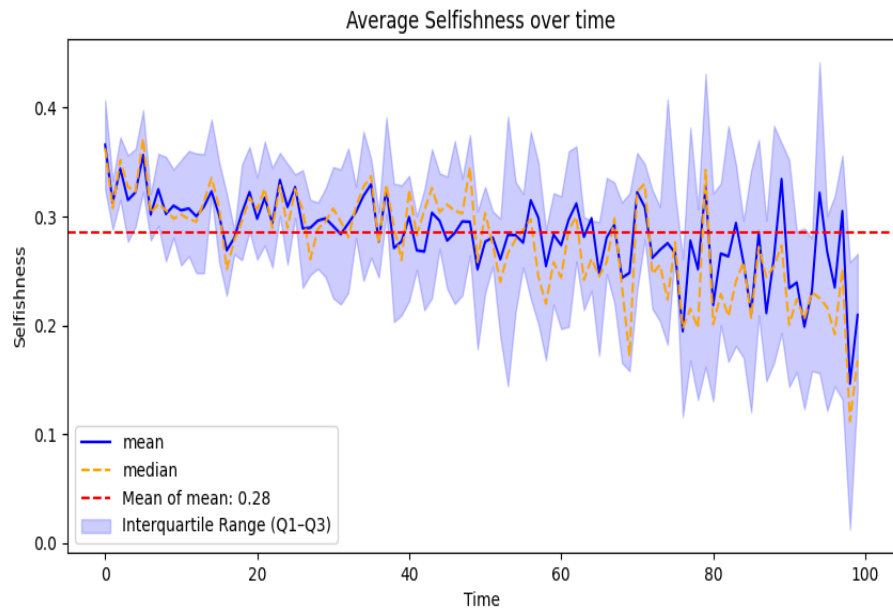
Mean : 27.691701903345844  
Variance : 7.7771344369862945



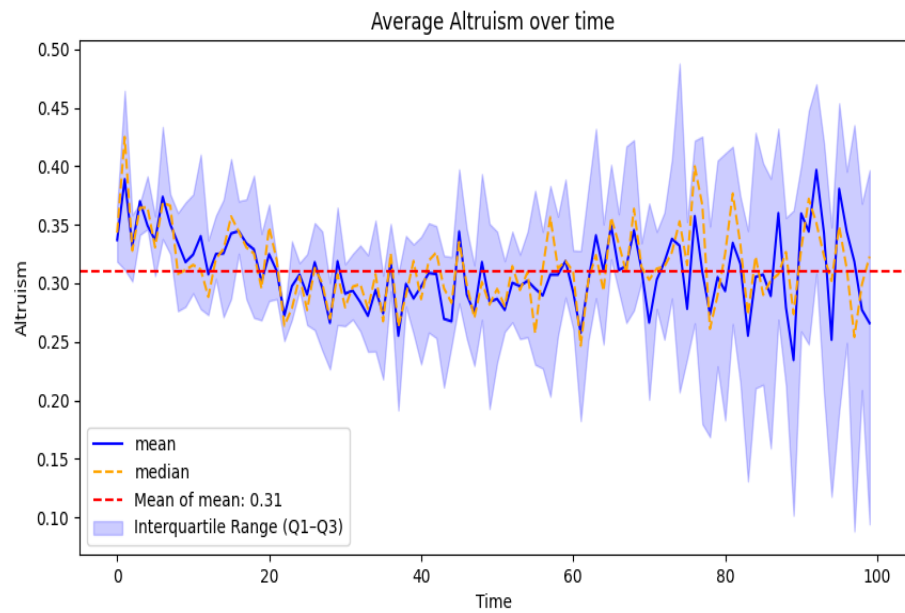
Mean : 146.72331163146245  
Variance : 4.509730786011767



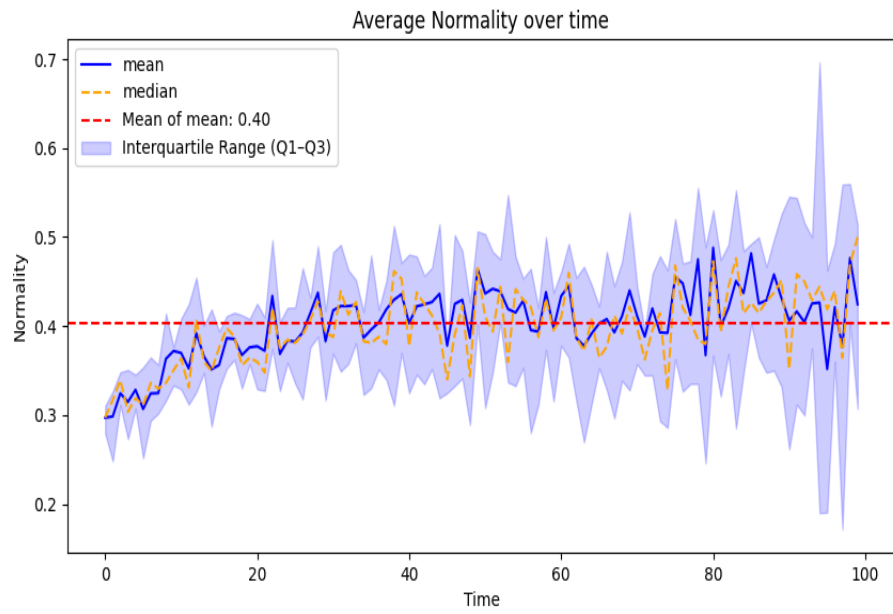
Mean : 10.22  
Variance : 102.49479999999998



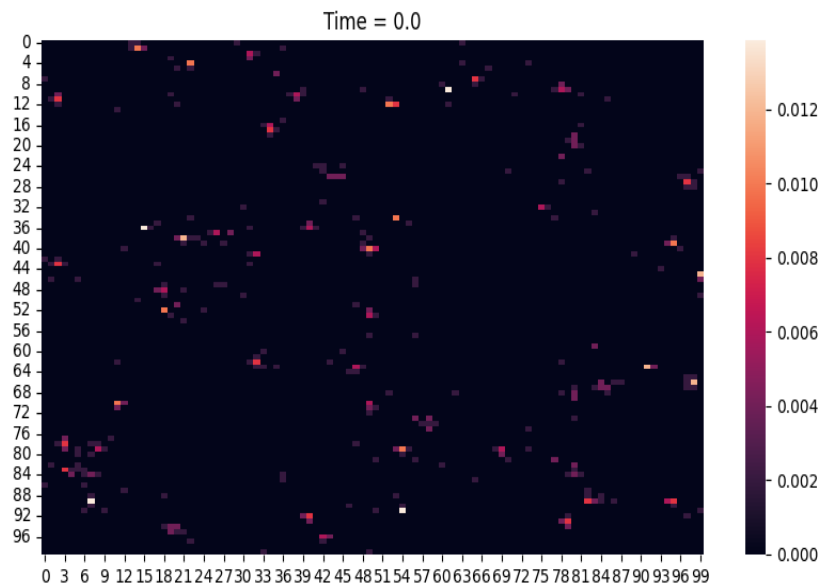
Mean : 0.2847730107390997  
Variance : 0.0012842975685354403

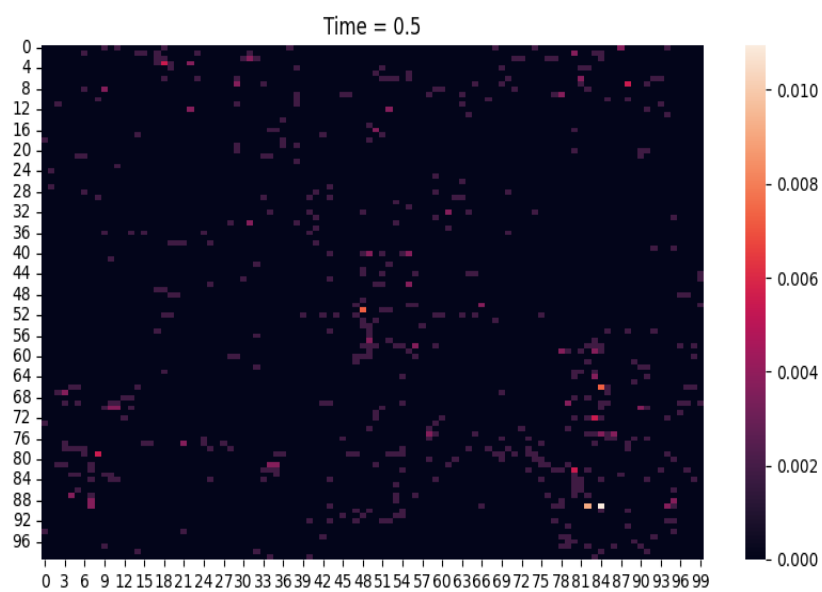
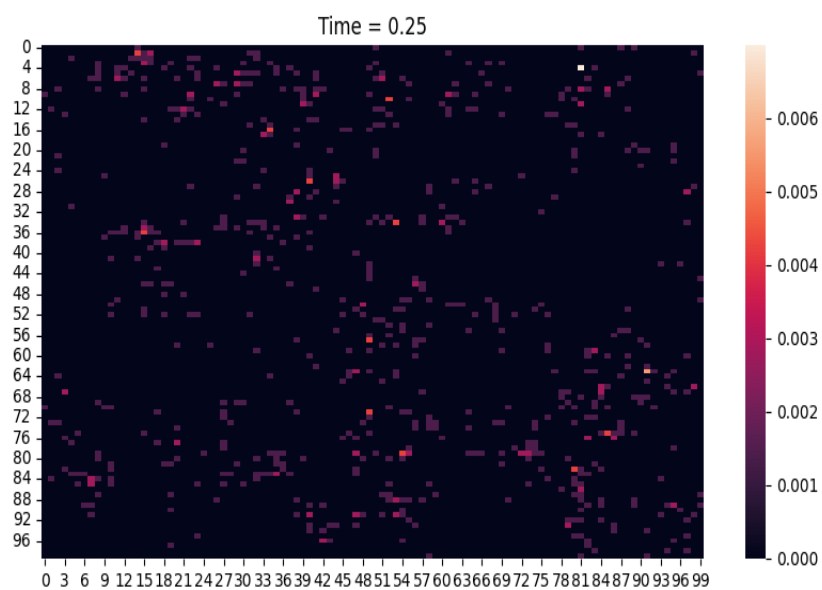


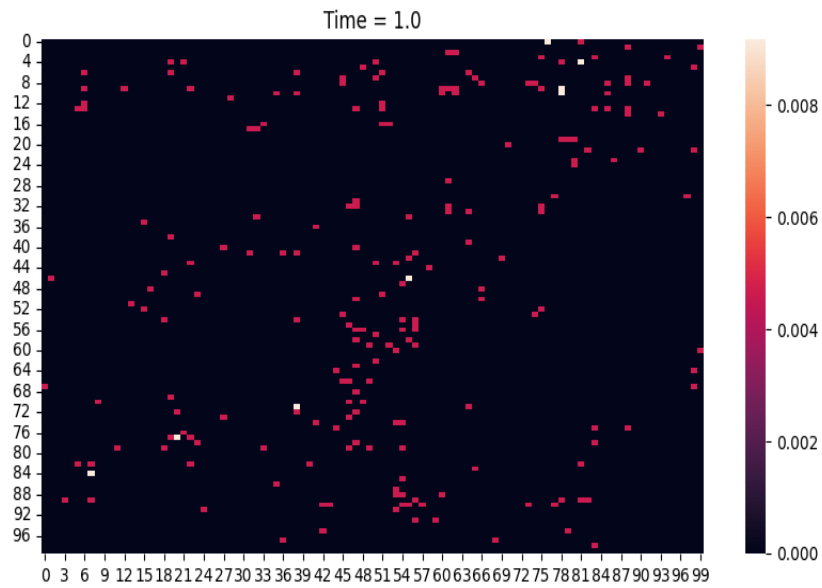
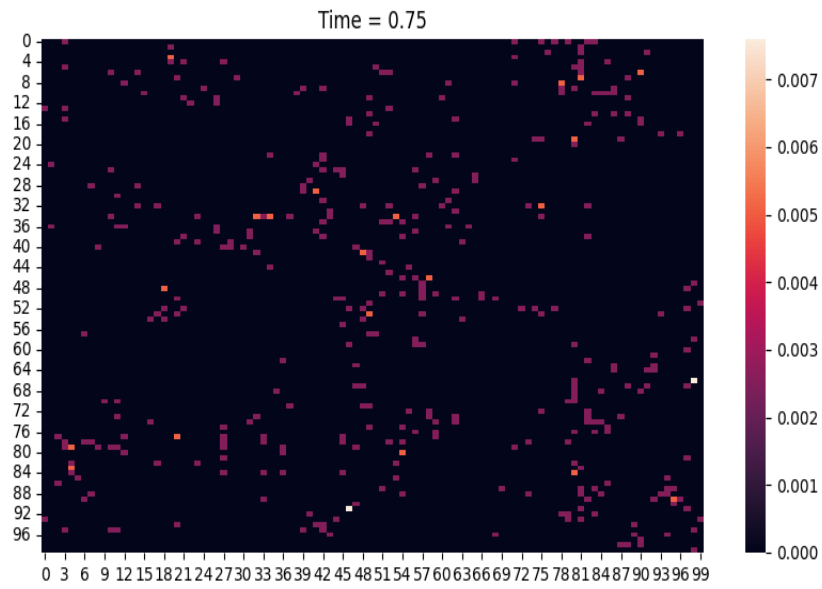
Mean : 0.3105669323662049  
Variance : 0.0009993164504537636



Mean : 0.40266005689469553  
Variance : 0.0015367713550049533  
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.