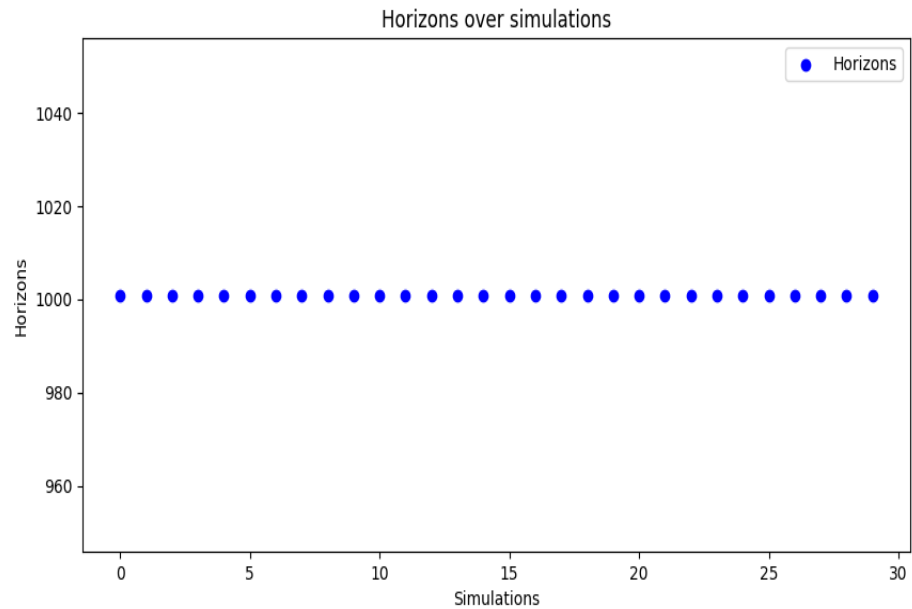


Test done 2025_04_22 at 12_48_35

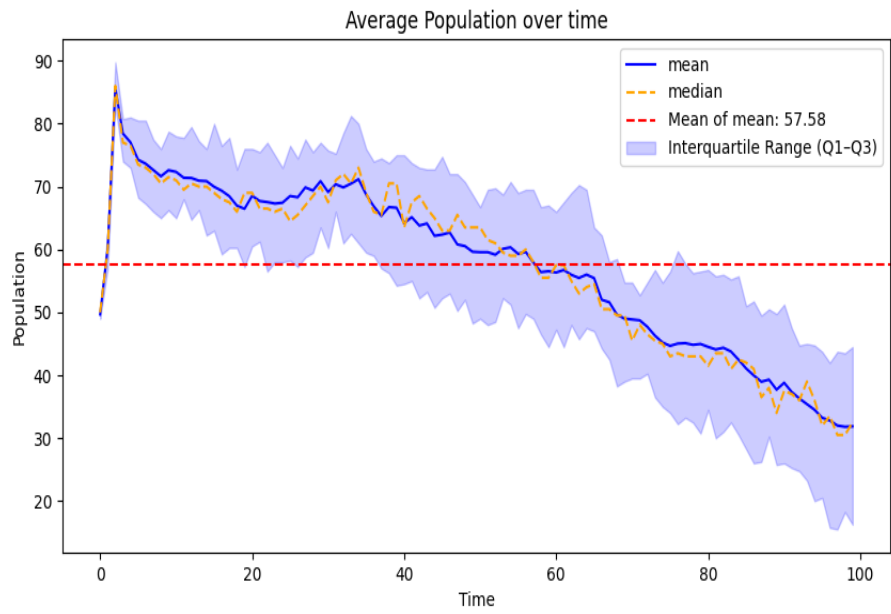
Number of simulation done : 30. The window time of the simulation is 10

Initial condition

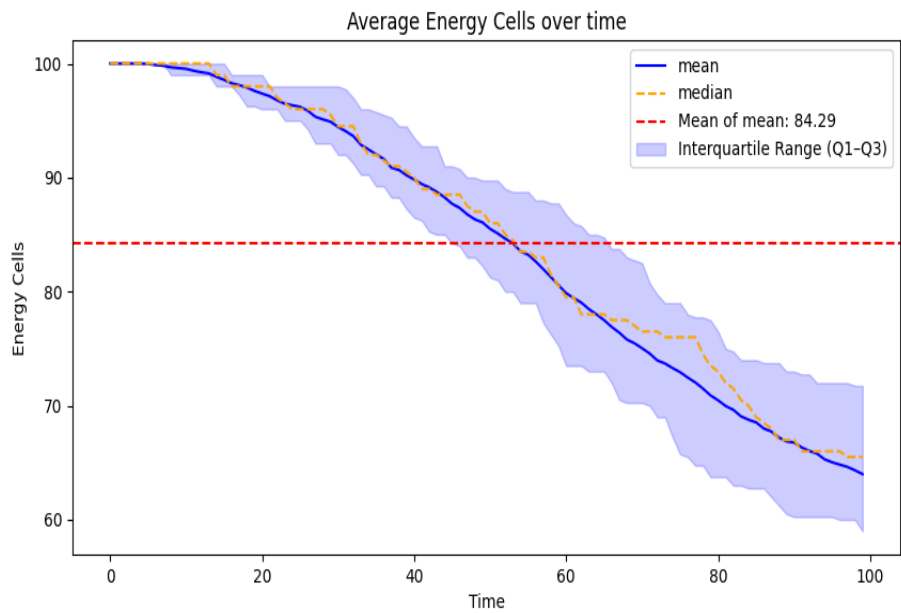
Size : 51
I_Energy : 100
I_Age : 100
I_Maturity : 18
I_Distr : Uniform
Radius : 4
Active : 100
C_Min : 10
C_Max : 150
C_Regen : 20
C_Distr : Uniform no regen
Height : 100
Width : 100
P_Distr : Uniform
Move : 1
Eat : 1
Rest : 0
Reproduce : 15
N_Simulations : 30
Seed : 37
Energy Needed : 0.6
Extra Energy : 0.2
Energy Requeste : 0.5
Mutation Rate : 0.1



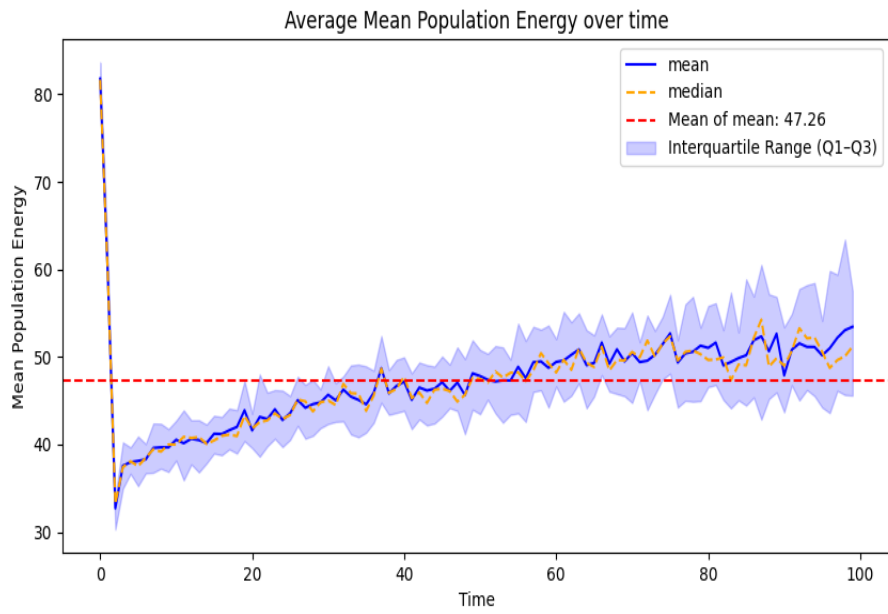
Mean : 1001.0
Variance : 0.0



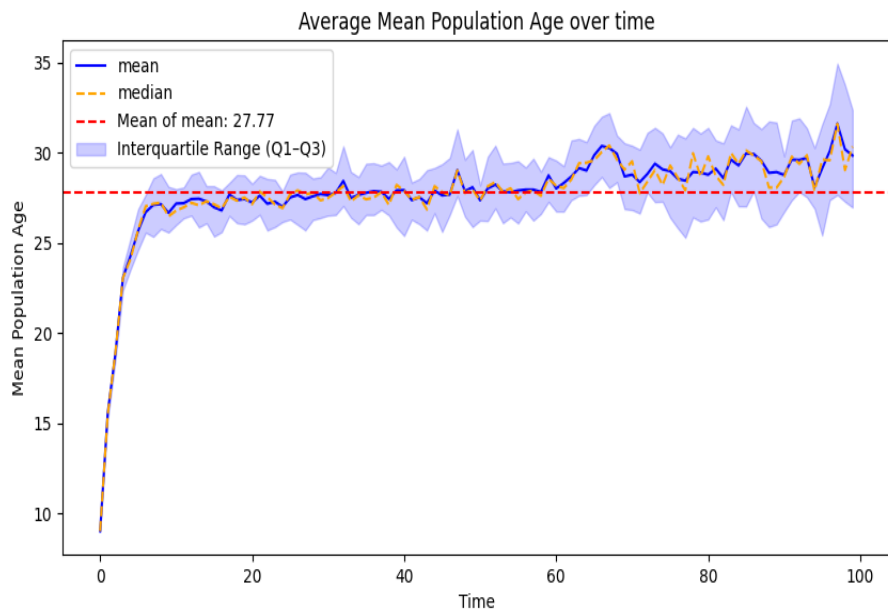
Mean : 57.583999999999996
Variance : 167.35267733333333



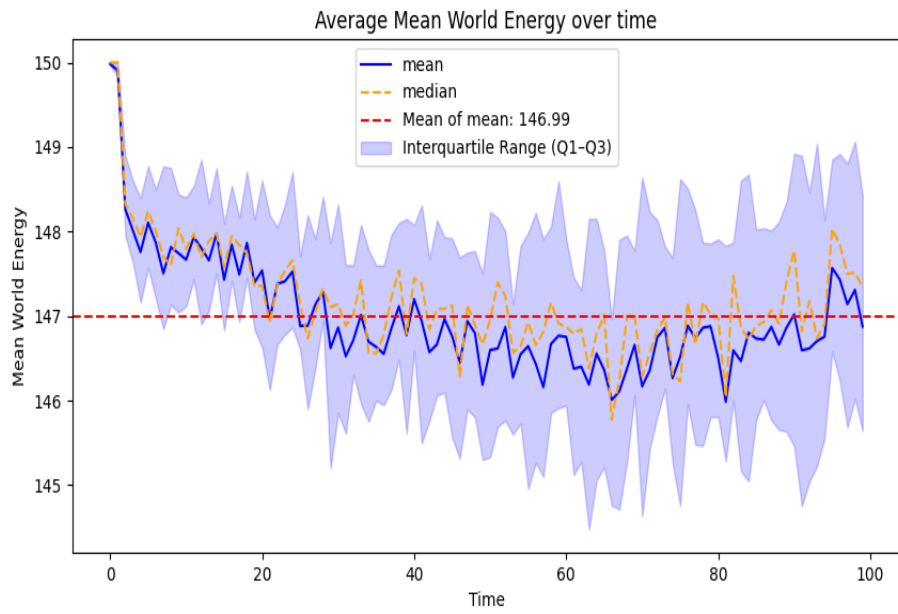
Mean : 84.286000000000002
Variance : 145.745804



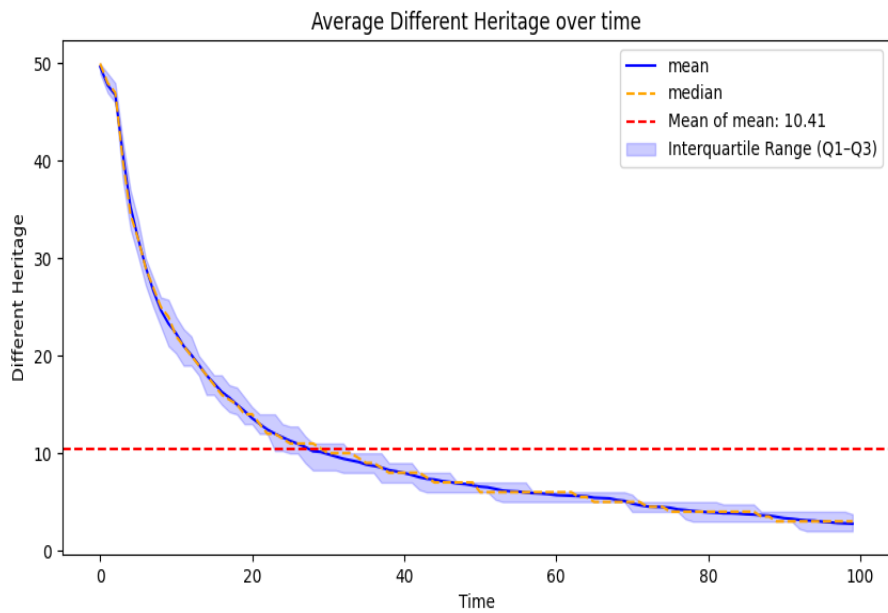
Mean : 47.25643442997453
Variance : 31.719160996798493



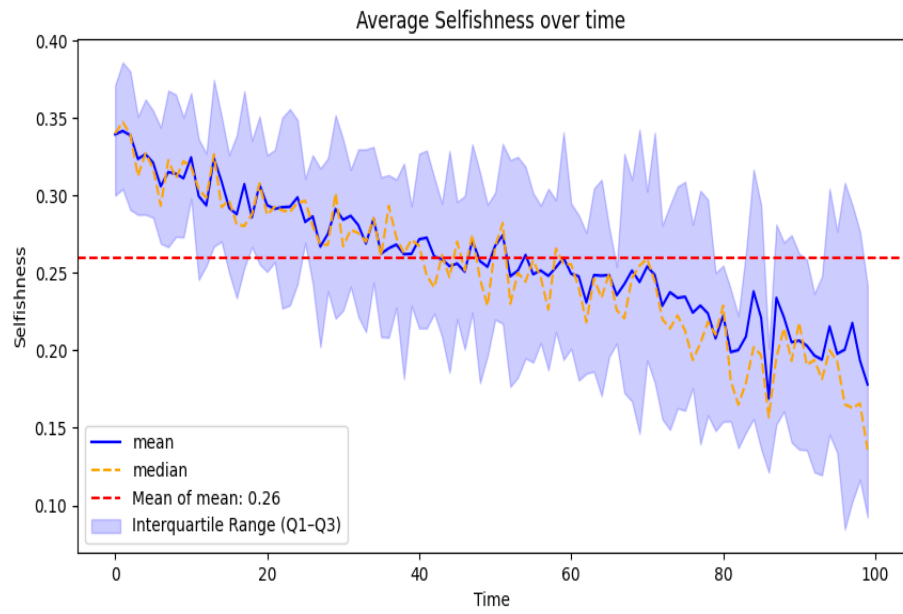
Mean : 27.769962832366353
Variance : 7.404301597854365



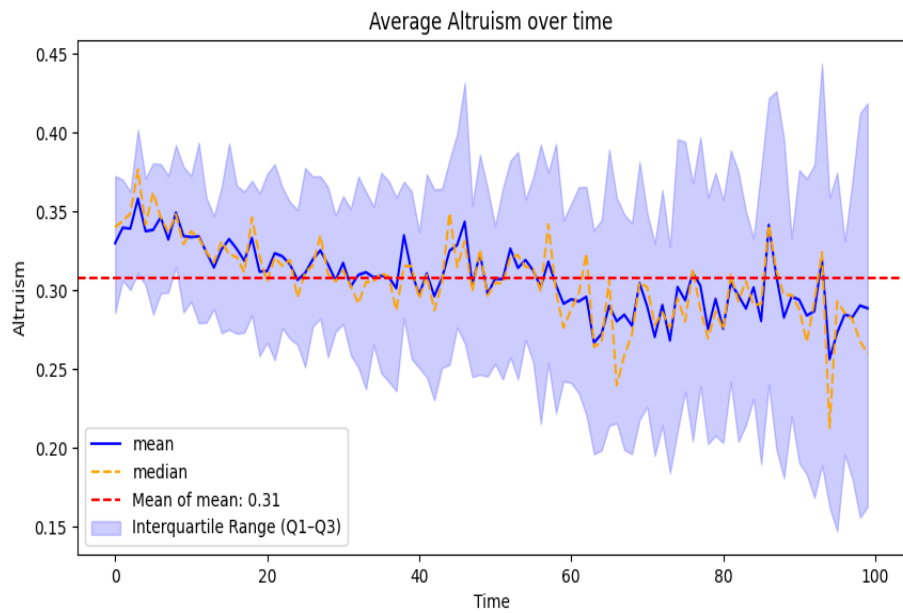
Mean : 146.98712072512515
Variance : 0.4468657848769241



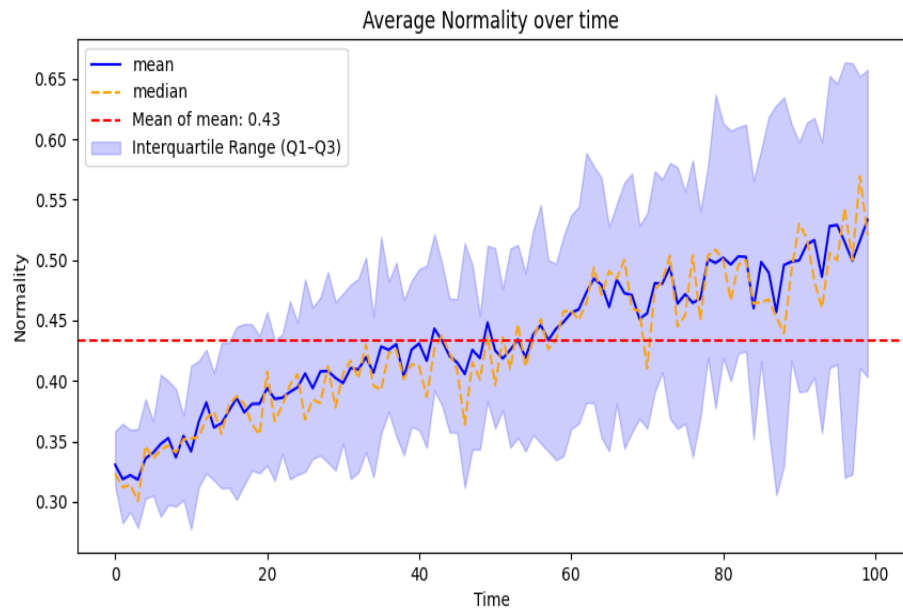
Mean : 10.405999999999999
Variance : 98.04665288888887



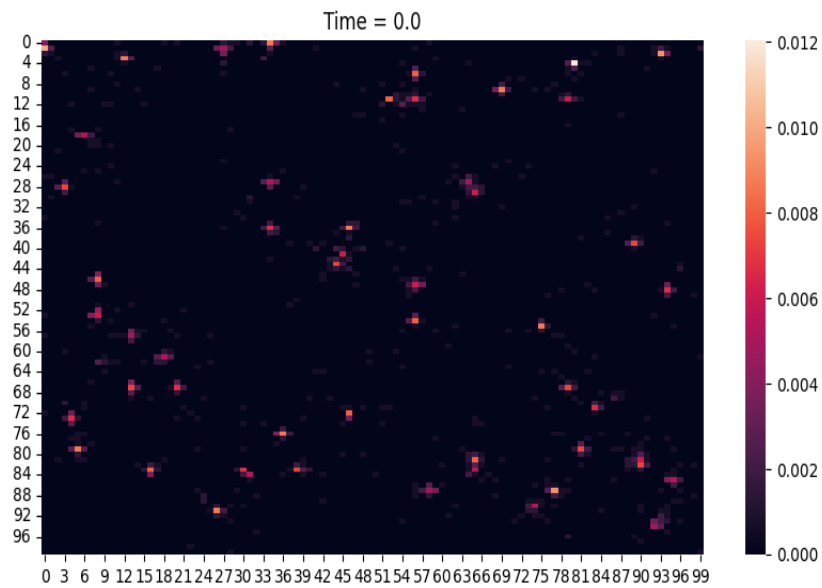
Mean : 0.2593252189738545
Variance : 0.0015013980099768773

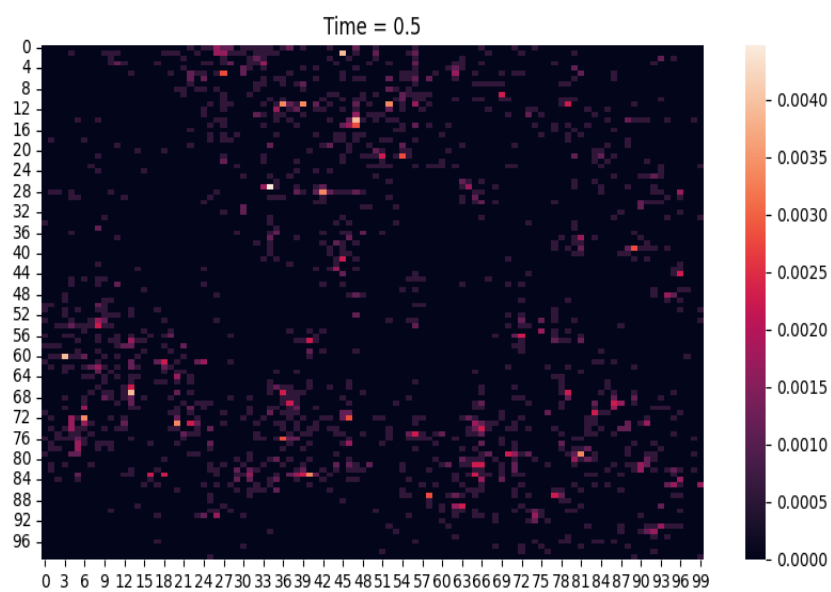
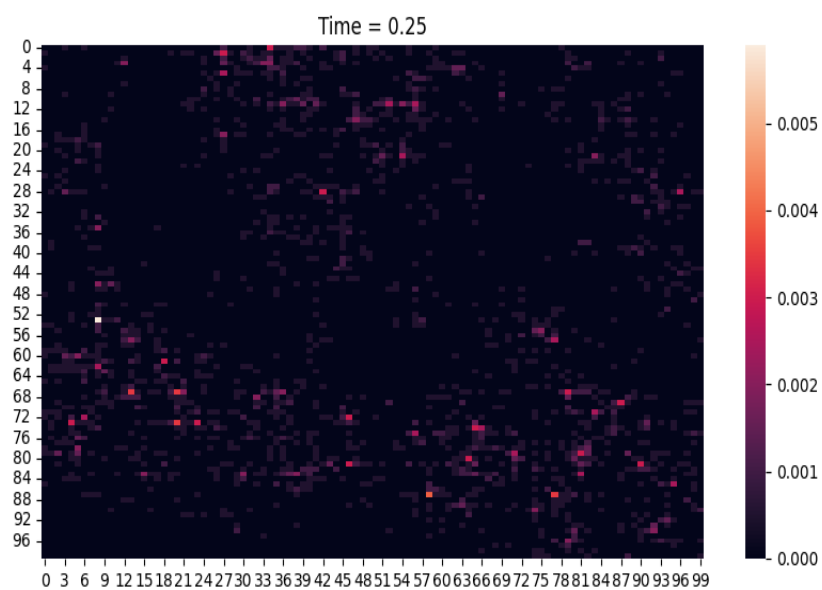


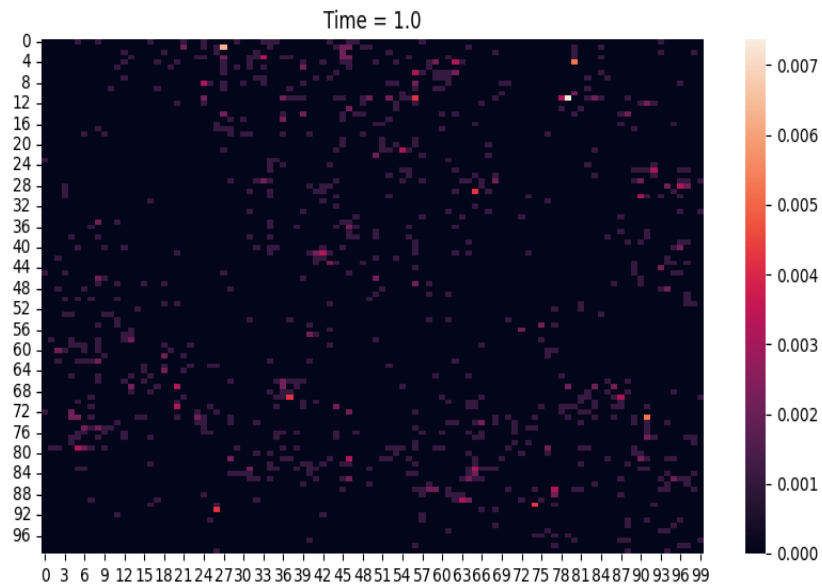
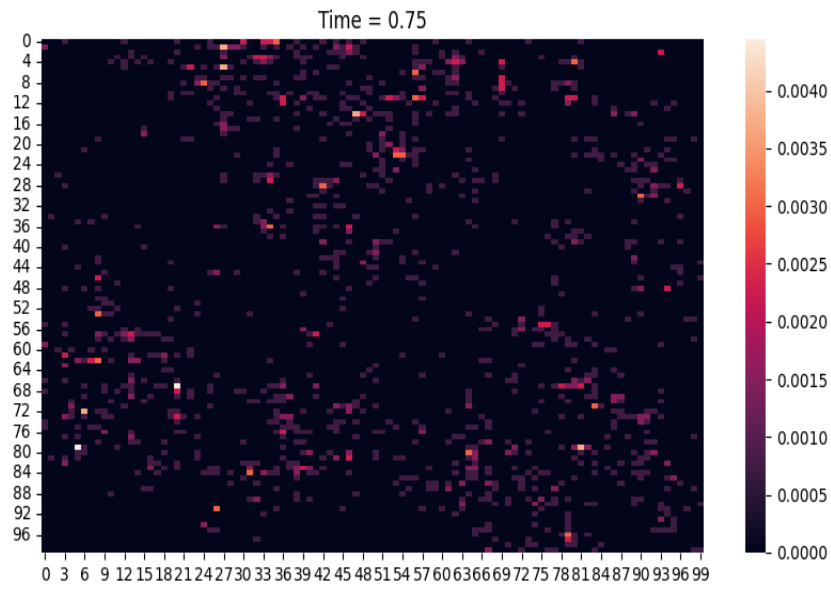
Mean : 0.3076707888678209
Variance : 0.00043025445624694206



Mean : 0.43300399215832464
Variance : 0.0029602999467553755
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.