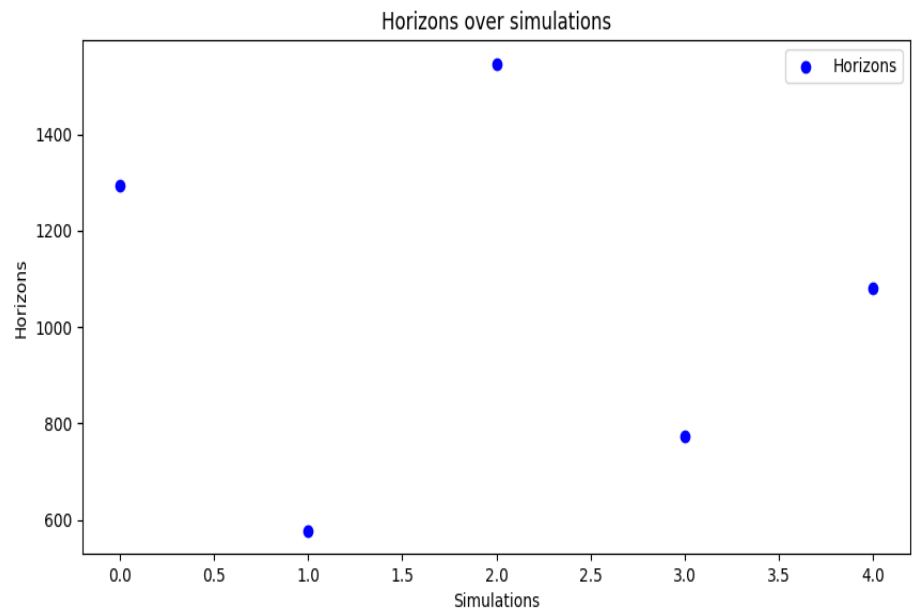


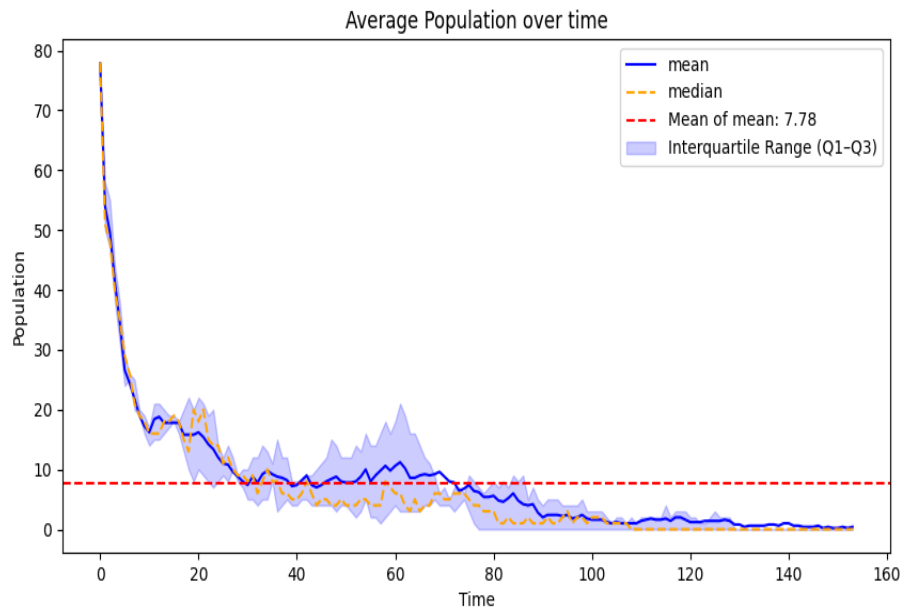
Test done 2025\_06\_26 at 16\_48\_39

Number of simulation done : 5. The window time of the simulation is 10

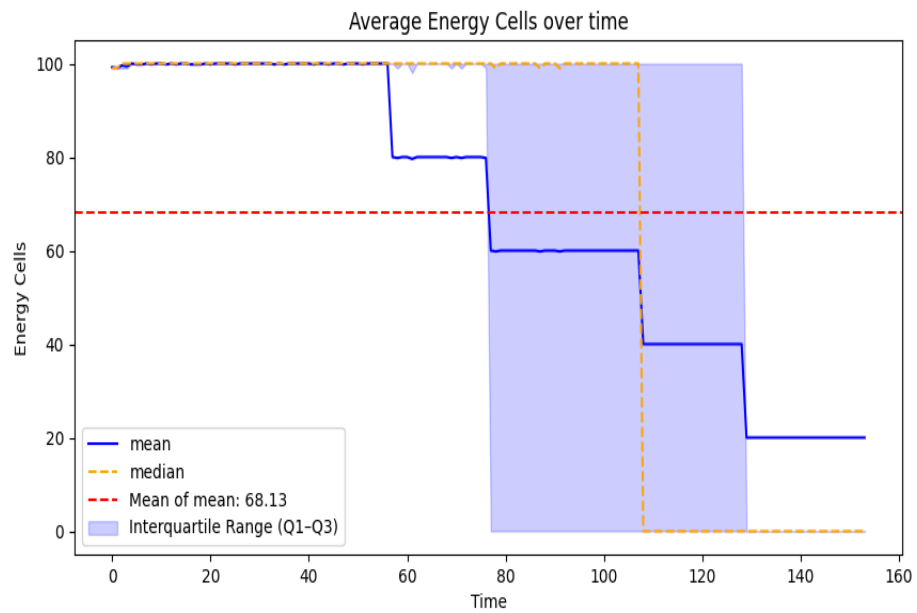
Initial condition  
Size : 100  
I\_Energy : 120  
I\_Age : 100  
I\_Maturity : 20  
I\_Distr : First Quad  
Radius : 8  
Active : 100  
C\_Min : 15  
C\_Max : 150  
C\_Regen : 5  
C\_Distr : Uniform  
Height : 100  
Width : 100  
P\_Distr : Uniform  
Move : 1  
Eat : 2  
Rest : 0  
Reproduce : 5  
N\_Simulations : 5  
Seed : 100  
Energy Needed : 0.6  
Extra Energy : 0.2  
Energy Requeste : 0.5  
Mutation Rate : 0.1



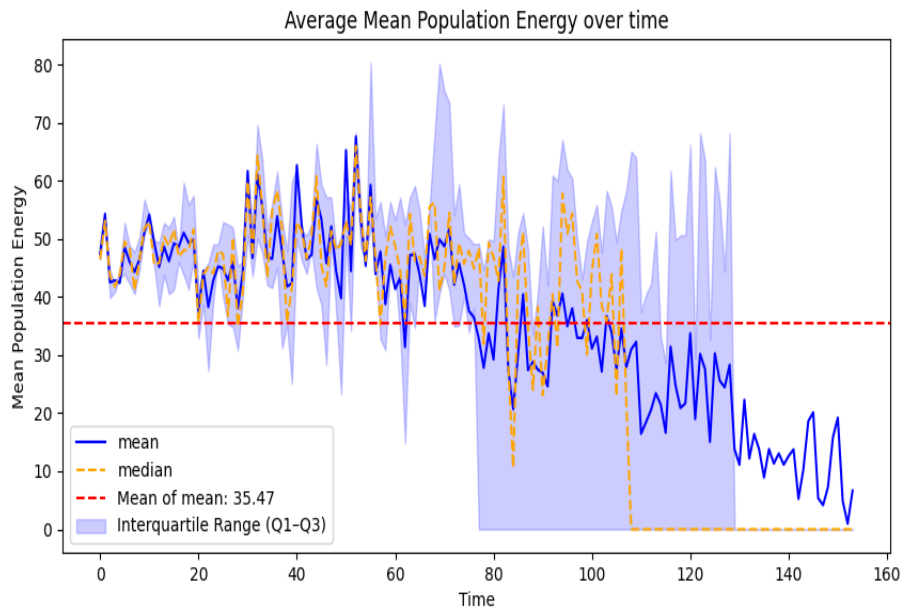
Mean : 1054.4  
Variance : 121164.23999999999



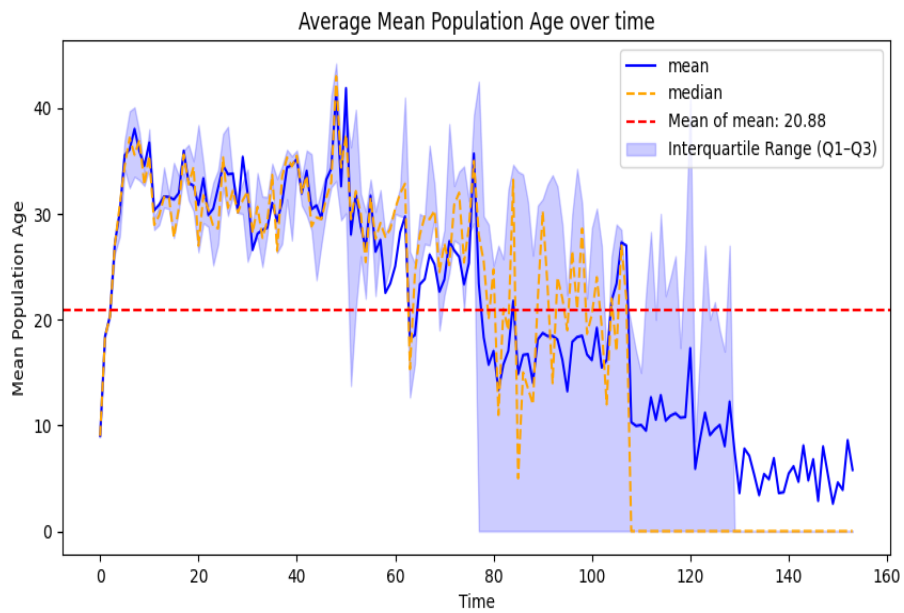
Mean : 7.783116883116882  
Variance : 102.76361106426043



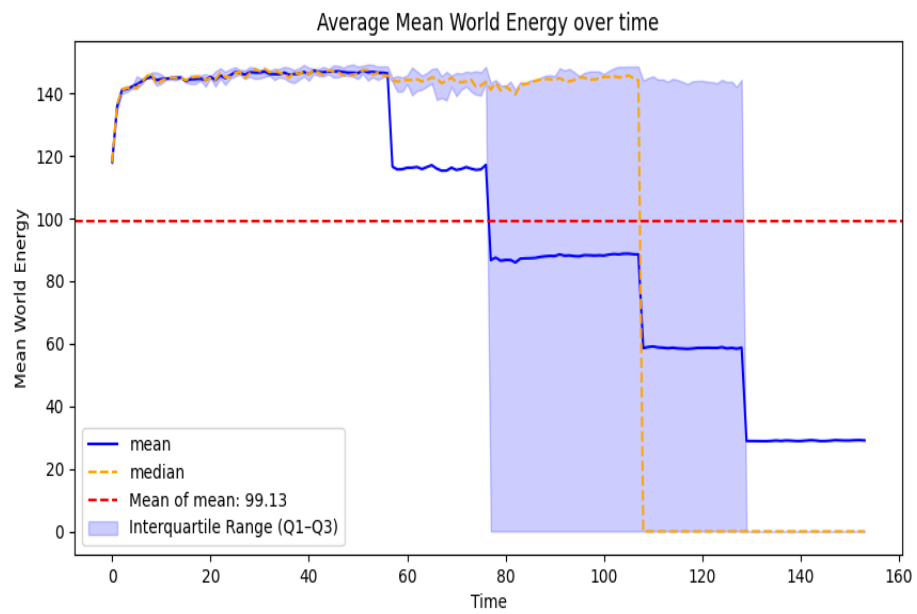
Mean : 68.13116883116884  
Variance : 888.9181194130543



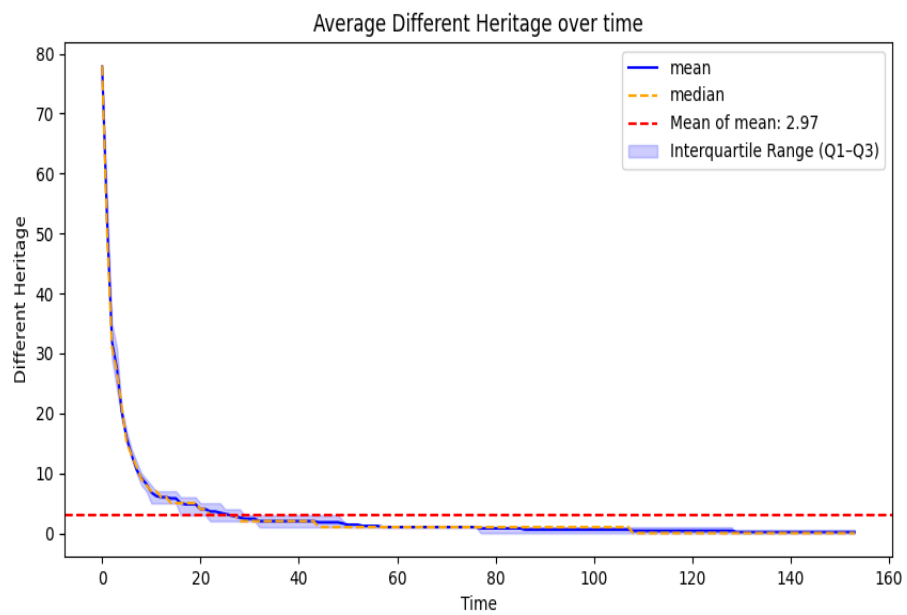
Mean : 35.469196848507295  
Variance : 217.34028395343884



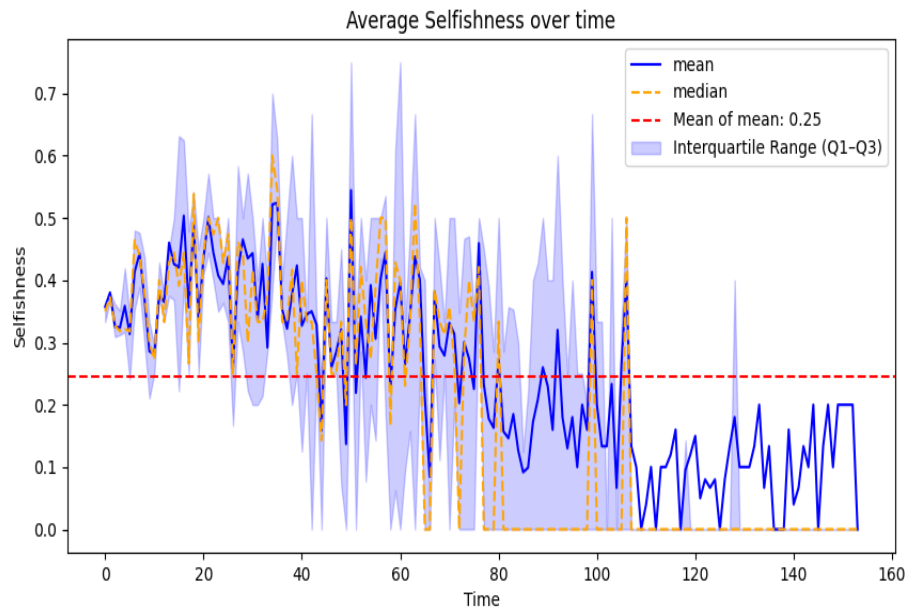
Mean : 20.876768529048263  
Variance : 112.1635167677911



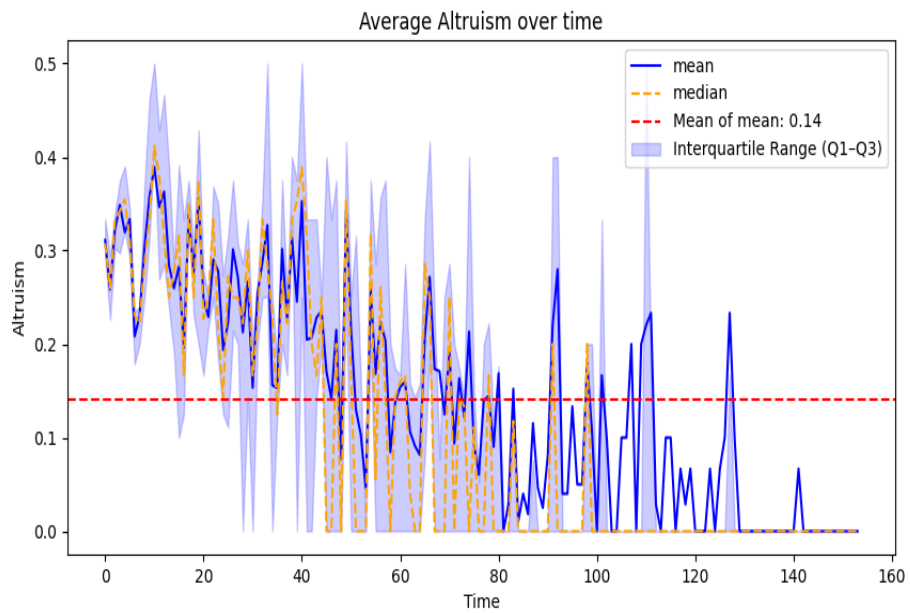
Mean : 99.12566499528216  
Variance : 1870.6795837200027



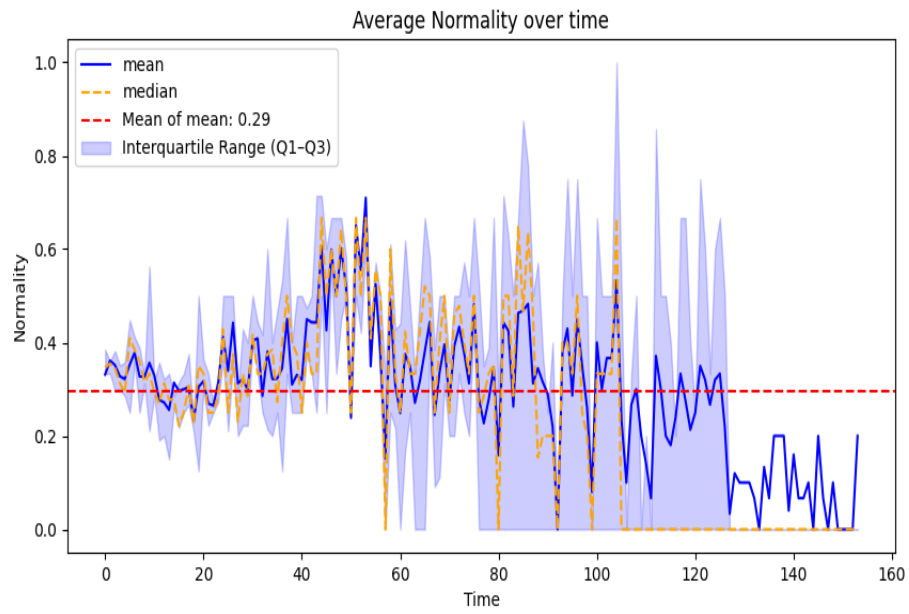
Mean : 2.97012987012987  
Variance : 70.4606662169



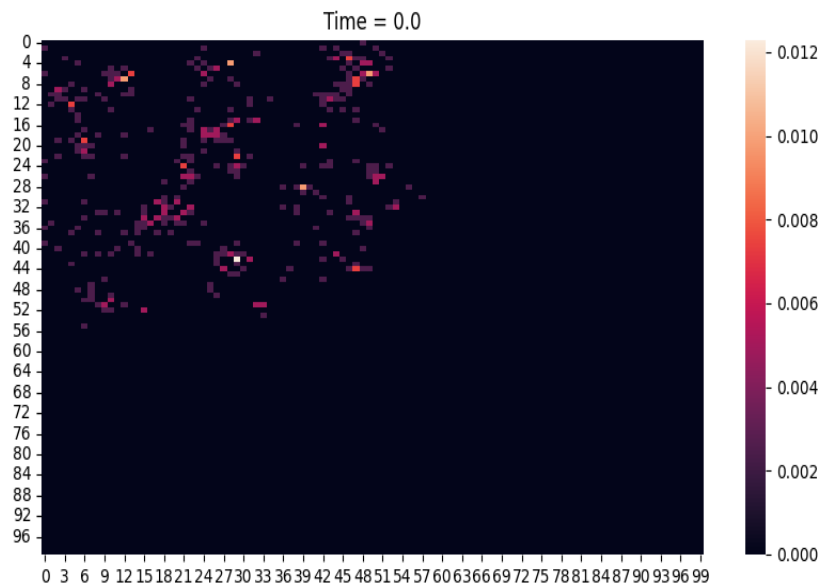
Mean : 0.24577864711009662  
Variance : 0.019829781719099514

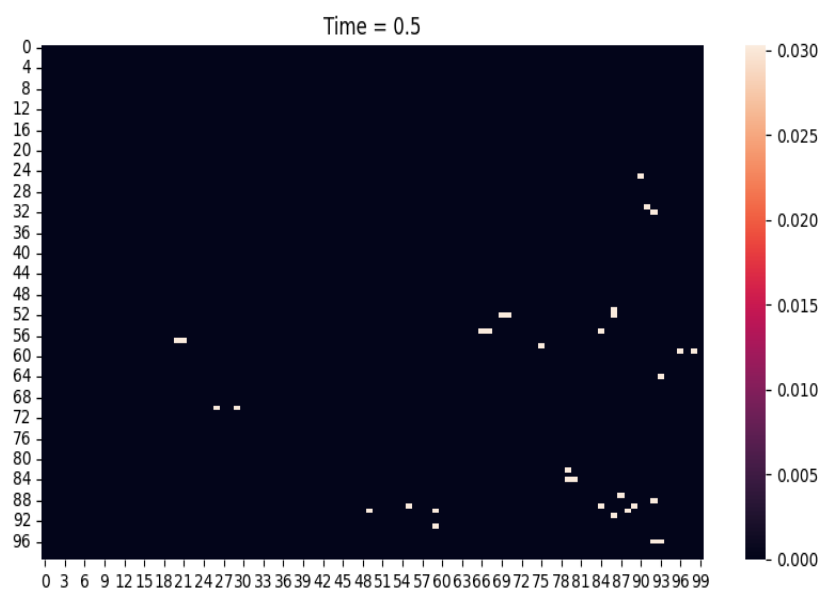
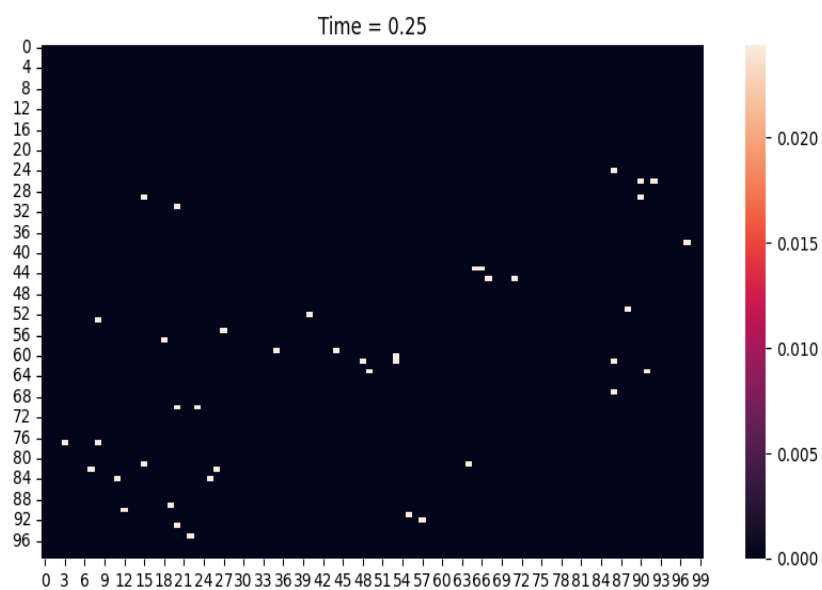


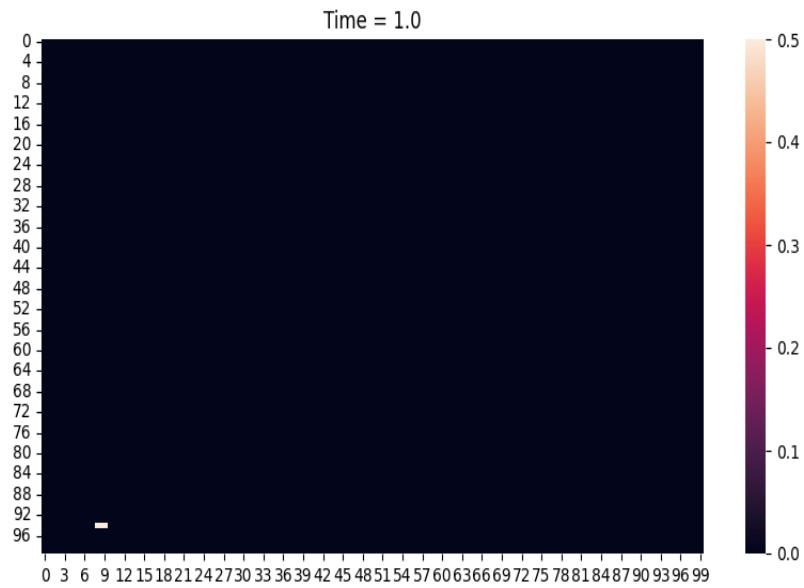
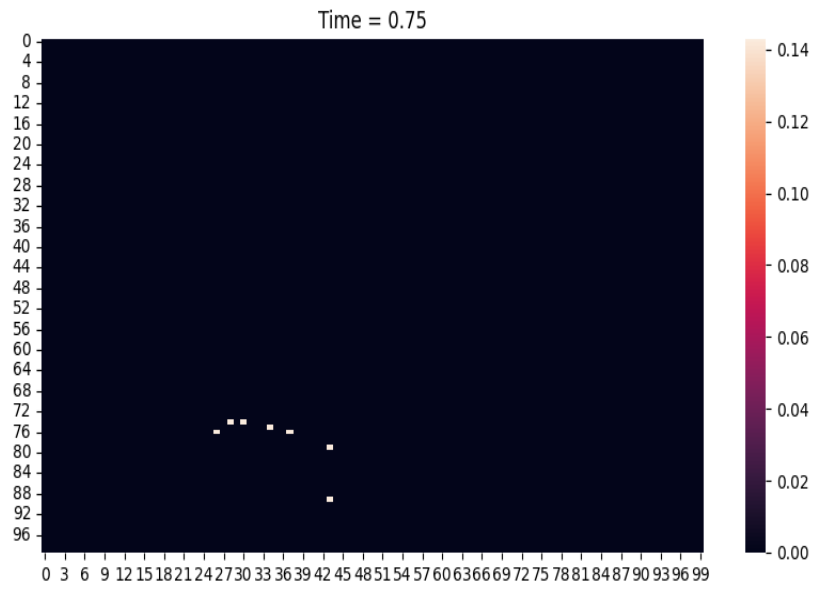
Mean : 0.1412301740495055  
Variance : 0.01314325560532905



Mean : 0.2948093606585797  
Variance : 0.02043709265500682  
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.