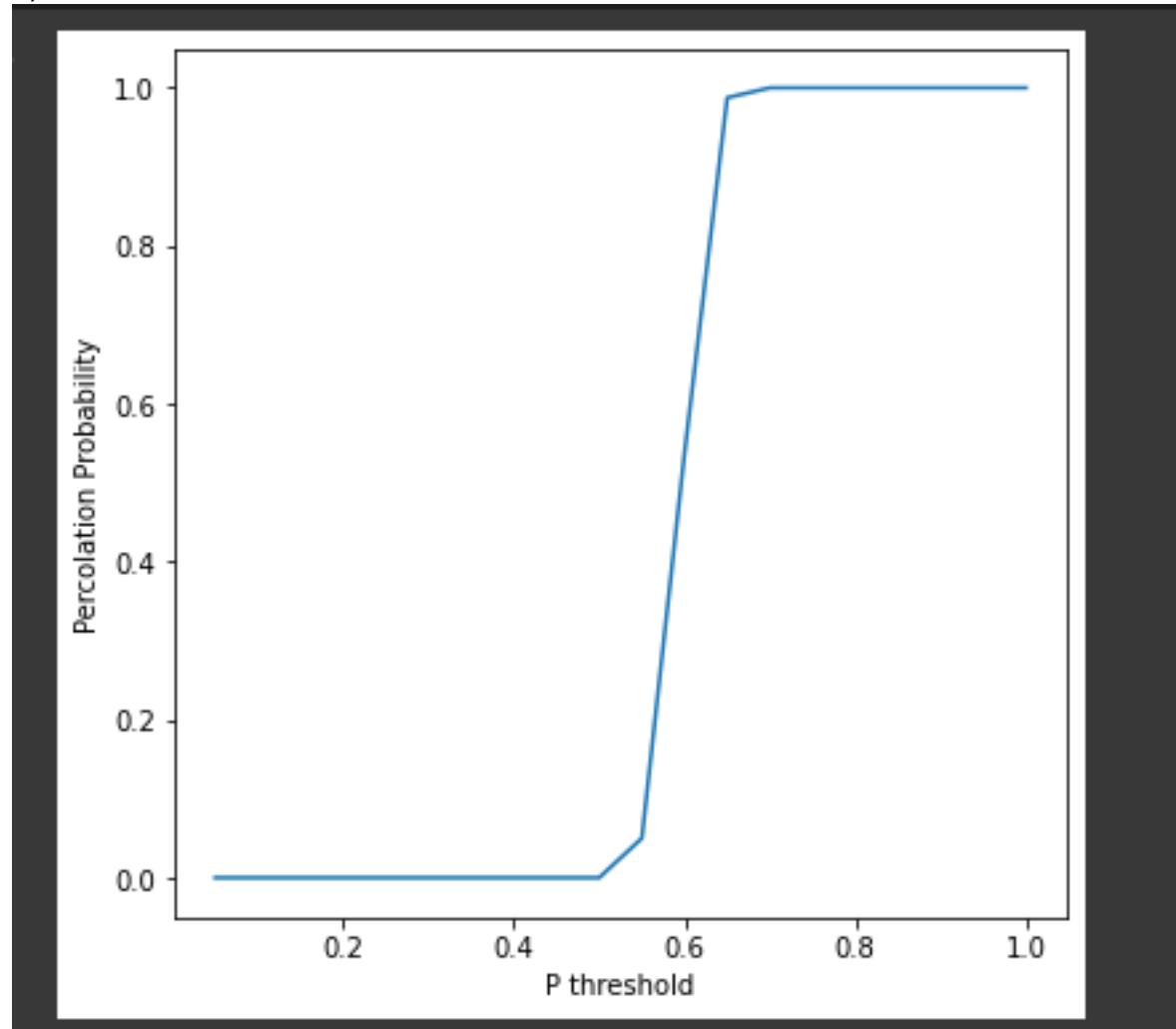


A) For the simulation, I first looped through each coordinate in grid matrix and with probability p , occupied the cells with value 1. Afterwards I used the label method of the scipy library to find the clusters. Then I find the percolation from top to bottom by looking at min and max values of the y coordinates. If minimum is 0 and max is equal to the shape of the grid, percolation exists in the grid. I put the visualizations in a separate file.

B)



c)

