

Foundation of Data Science Assignment-1

-Group members-

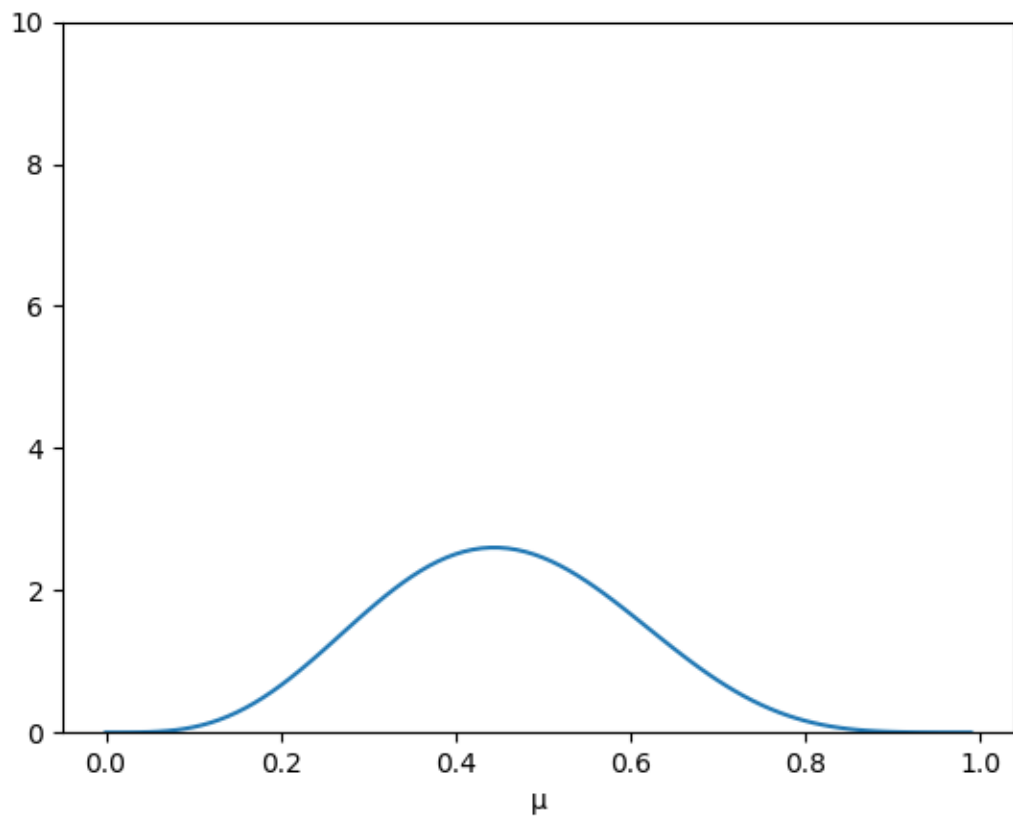
Himanshu Badlani-2015B3A70548H

Pranjal DineshChandra Gupta-2015B4A70668H

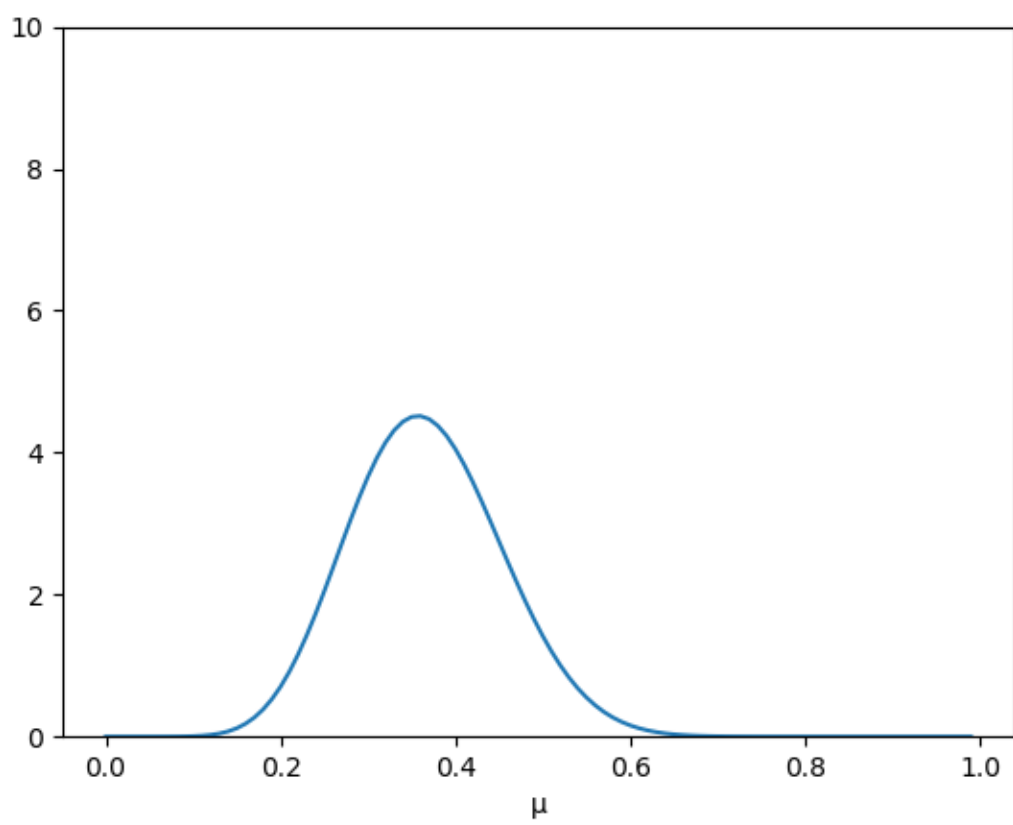
Rohan Jain-2015B4A70676H

Part A: Sequential Learning

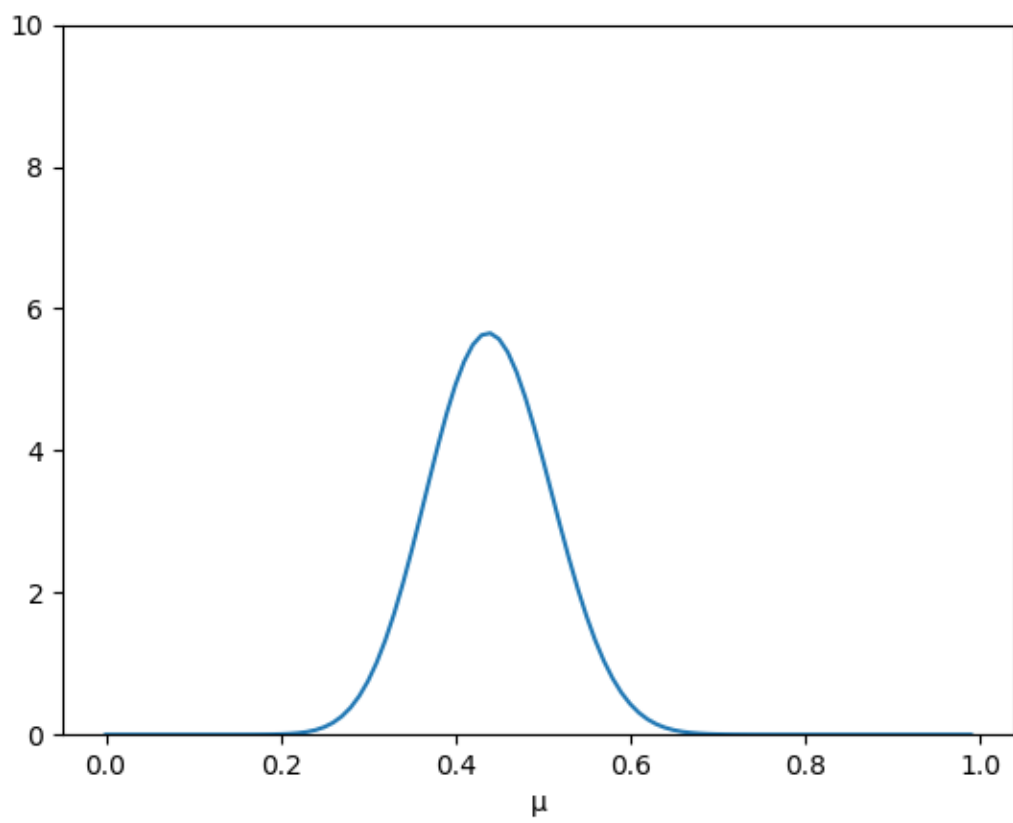
Tortoise's view



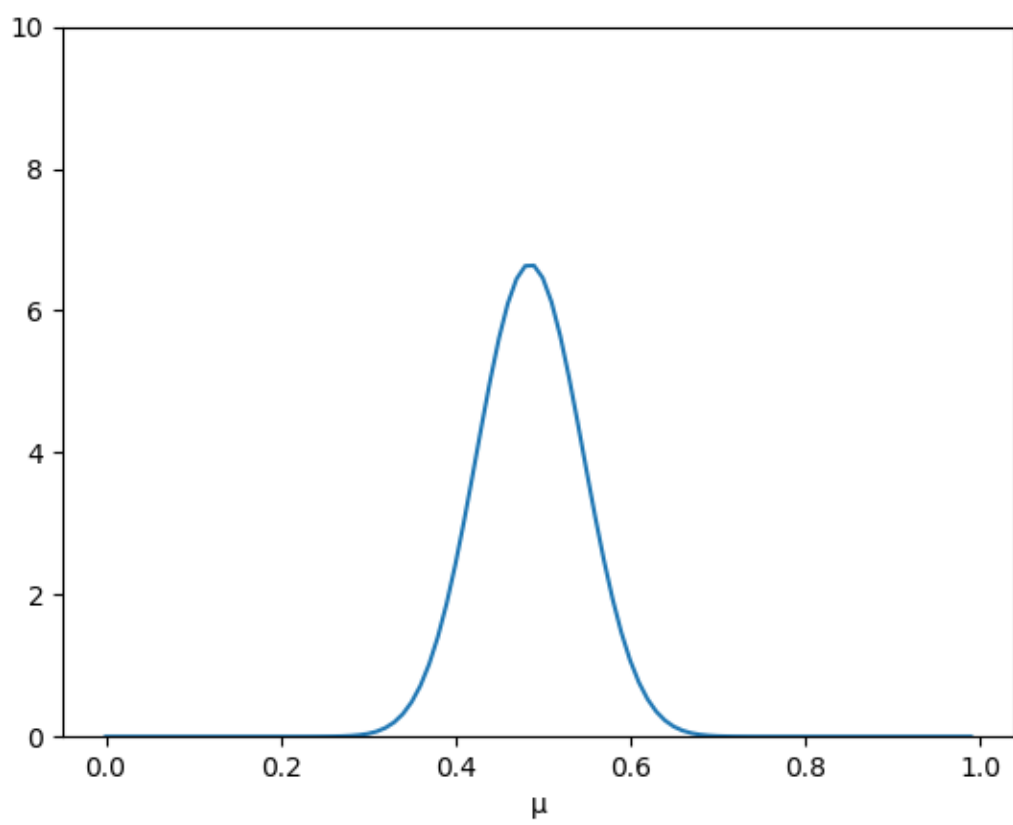
After 1 point



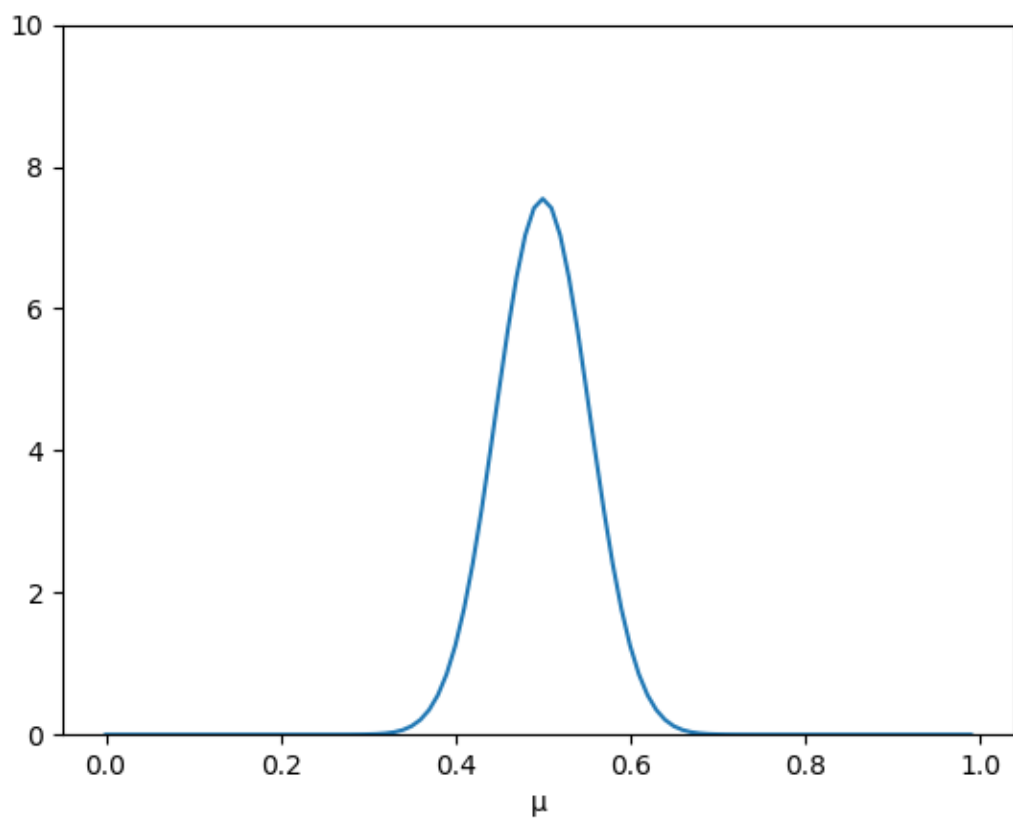
After 20 points



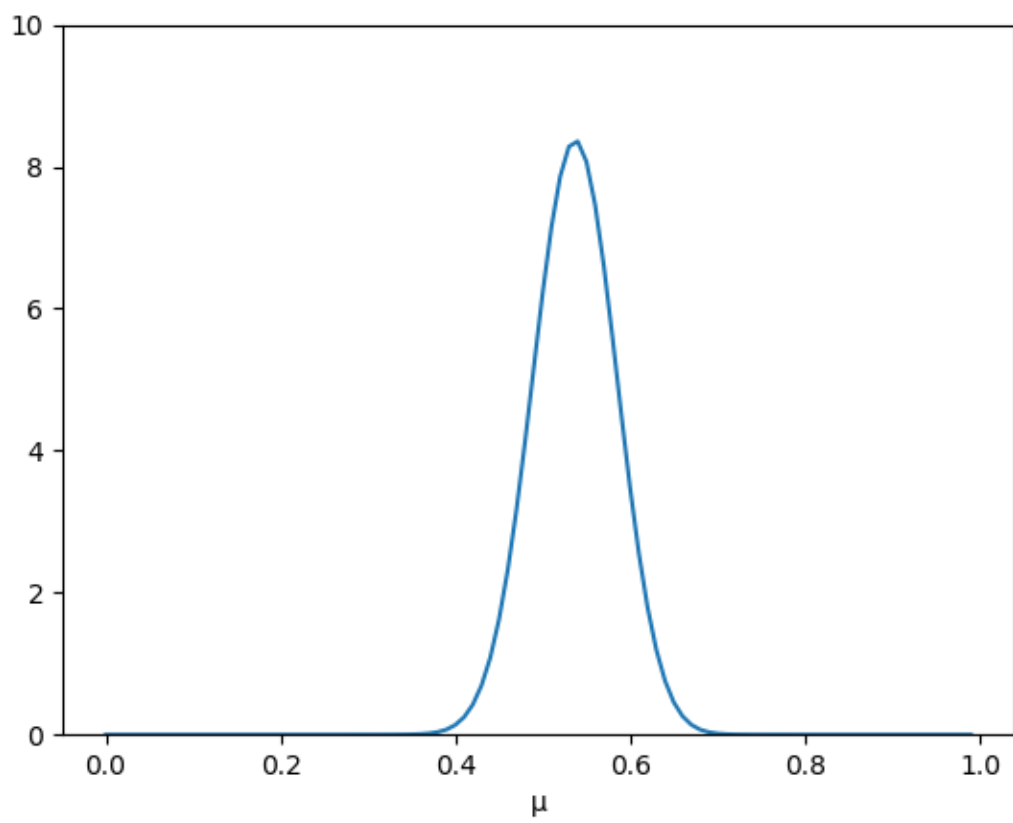
After 40 points



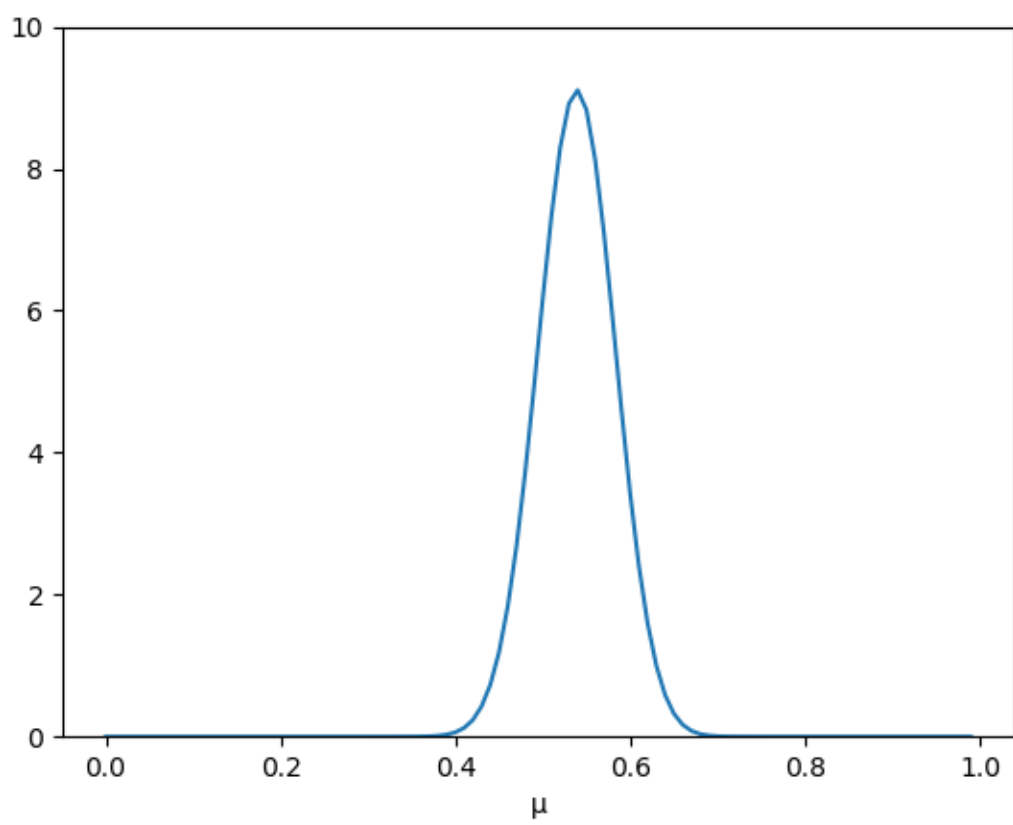
After 60 points



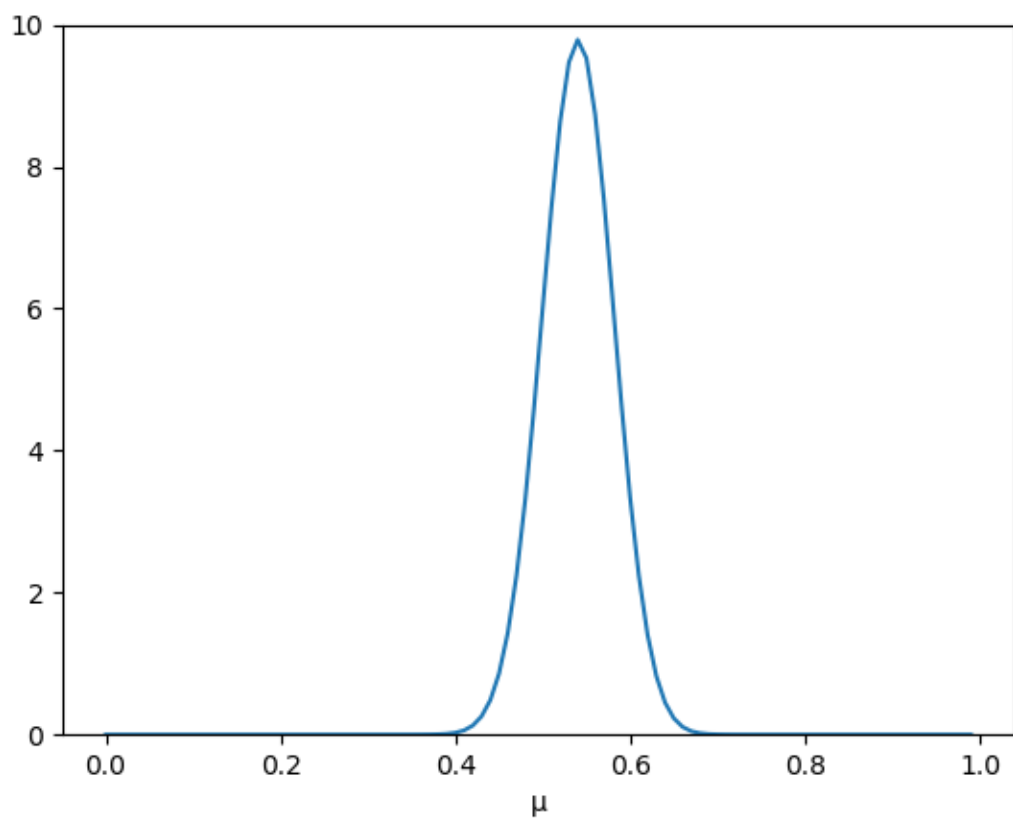
After 80 points



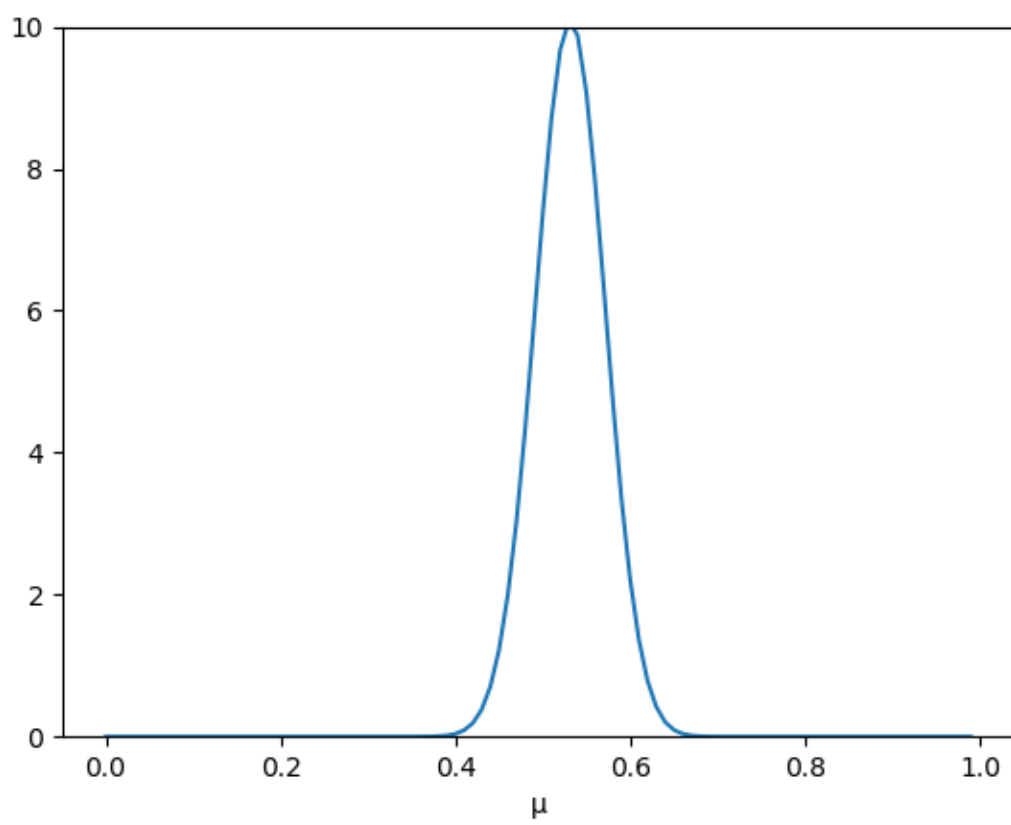
After 100 points



After 120 points



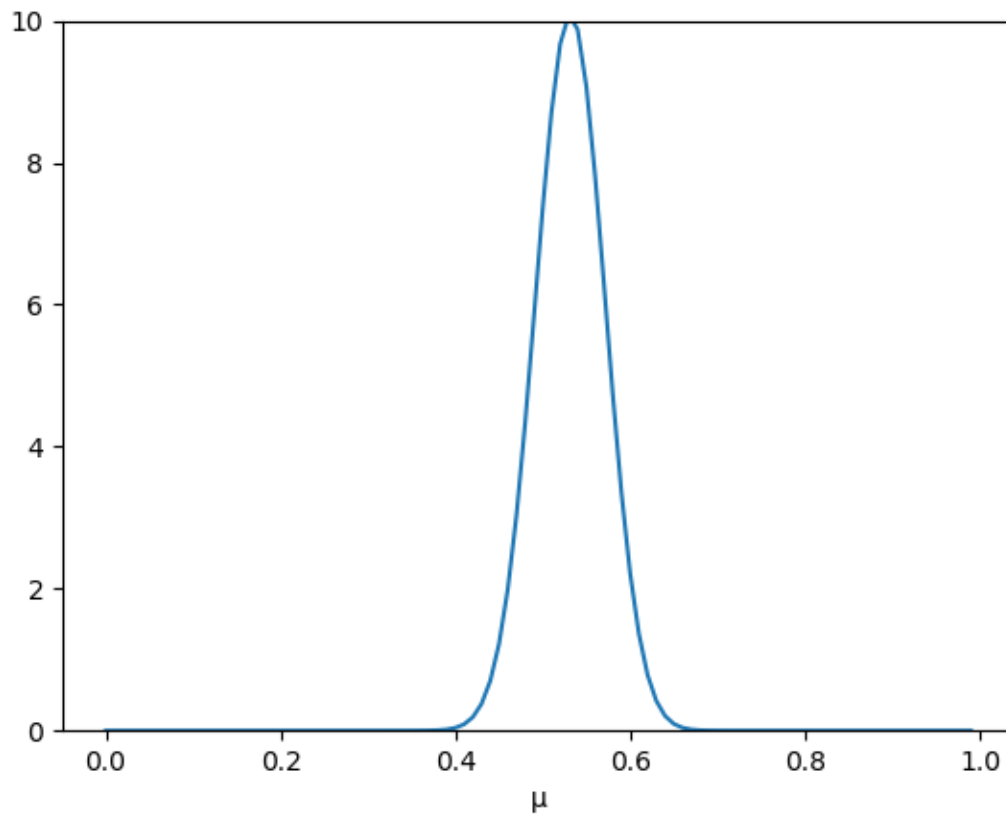
After 140 points



After 150 points

Part B:

Rabbit's view



Part C:

The graphs in Part A result into the final graph in Part B after 150 points have been iterated in sequential method.

The dataset was restricted to 150 datapoints to prevent

`RuntimeWarning: invalid value encountered in
double_scalars`

This happens due to increase in gamma function value (since gamma function computes factorial, whose value increases drastically over 150), and numpy gives an error.