Exercise 4 Thompson Beta

Bookmark this page

Exercise 2.4: Thompson Beta

In this exercise, you will implement the Thompson Beta algorithm.

Make sure that you have:

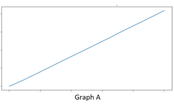
1. Completed the setup requirements as described in the Set Up Lab Environments section
2. Completed the previous exercises in this lab

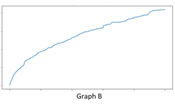
Now, run jupyter notebook and open the "Ex2.4 Thompson Beta.ipynb" notebook under **Module 2** folder.

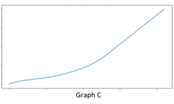
1. Examine the notebook.
2. Your task is to implement a thompson sampling beta bernoulli algorithm.
3. We have given you some boiler plate code, you only need to modify the part as indicated.
4. Once you have done that, prepare a simulation. Don't change any other parameter, that is:
   - evaluation_seed = 1239
   - num_actions = 10
   - trials = 10000
   - distribution = "bernoulli"
5. Run the simulation, observe the results, and answer the following questions.

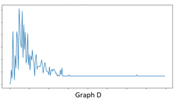
Lab Question

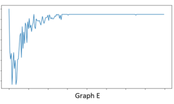
1/1 point (graded)

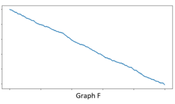

Graph A


Graph B


Graph C


Graph D


Graph E


Graph F

Which of the following graph resembles the regret curve over time?

- ○ Graph A
- ◉ Graph B ✔
- ○ Graph C
- ○ Graph D
- ○ Graph E
- ○ Graph F

Submit You have used 2 of 2 attempts

Show Answer

✔ Correct (1/1 point)

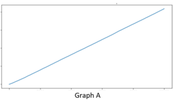
Now let's prepare another simulation by setting a different distribution, so your parameters should look like this:

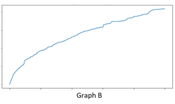
- evaluation_seed = 1239
- num_actions = 10
- trials = 10000
- distribution = "normal"

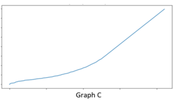
Run the simulation and observe the results.

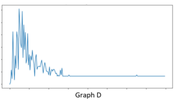
Lab Question

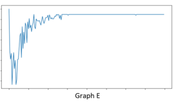
0/1 point (graded)

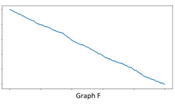

Graph A


Graph B


Graph C


Graph D


Graph E


Graph F

Which of the following graph resembles the regret curve over time?

- ○ Graph A
- ○ Graph B
- ○ Graph C
- ○ Graph D
- ◉ Graph E ✖
- ○ Graph F

Submit You have used 2 of 2 attempts

Show Answer

✖ Incorrect (0/1 point)

Previous Next

© All Rights Reserved

© 2012–2019 edX Inc.
EdX, Open edX, and MicroMasters are registered trademarks of edX Inc. | 粤ICP备17044299号-2