Untitled2

September 19, 2024

[2]:
```
import numpy as np
all_door_options = (1,2,3)  # tuple
my_door_choice = 1  # 1,2,3
i_won = 0
reps = 100000
for i in range(reps):
    secret_winning_door = np.random.choice(all_door_options)
    all_door_options_list = list(all_door_options)
    # take the secret_winning_door, so we don't show it as a "goat" losing door
    all_door_options_list.remove(secret_winning_door)
    try:
        # if my_door_choice was secret_winning_door then it's already removed
        all_door_options_list.remove(my_door_choice)
    except:
        pass
    # show a "goat" losing door and remove it
    goat_door_reveal = np.random.choice(all_door_options_list)
    all_door_options_list.remove(goat_door_reveal)

    # put the secret_winning_door back in if it wasn't our choice
    # we previously removed it, so it would be shown as a  "goat" losing door
    if secret_winning_door != my_door_choice:
        all_door_options_list.append(secret_winning_door)
    # if secret_winning_door was our choice then all that's left in the list is␣
 ↪a "goat" losing door
    # if secret_winning_door wasn't our choice then it's all that will be left␣
 ↪in the list

    # swap strategy
    my_door_choice = all_door_options_list[0]

    if my_door_choice == secret_winning_door:
        i_won += 1

i_won/reps
```

[2]:
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0.66804
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[ ]: Question 1,2 https://chatgpt.com/share/66ec7a91-7dbc-8007-9089-9357b0be4e83

code explain line by line

1.import numpy as np This code imports numpy libary which will be used to randomly select doors

2.all_door_options = (1,2,3) # tuple This defines a tuple with the three doors (1,2 and 3) where on of the doors will have a price and the other two doors will have goats.

3.my_door_choice = 1 # 1,2,3 This codes means you will always choose one door initially.

4.i_won = 0 This code means a counter that will keep track on the amount of times you will win.

5.reps = 100000 This number of repetition for the simulation and 10000 means the times it will be simulating.

6.for i in range(reps): this starts a loop that will run the simulation and reps means the times(100,000)

7.secret_winning_door = np.random.choice(all_door_options) This randomely selects doors (1,2 or3) will be the "winning" door in each round.

8.all_door_options_list = list(all_door_options) This coverts the tuple of doors (1,2,3) in to a list . this allows us to remove doors from the list.

9.all_door_options_list.remove(secret_winning_door) Removes the door that holds the prize from the list because we don't want to show the prize dooor when reavealing a loosing door.

10.try: all_door_options_list.remove(my_door_choice) if you initial door choice is not the wining door, this will remove your chosen foor from the lists of doors.

11.except: pass if your chosen door was the wining then it's already removed so the no more reason to remove another door.

12.goat_door_reveal = np.random.choice(all_door_options_list) This code randomely selects one of the remaining doors(after the prize and the chosen door are removed to reveal a "goat"(losing door). This code simulates monty hall revealing one of the losing doors.

13.all_door_options_list.remove(goat_door_reveal) Removes the revealed losing door(goat) from the list, leaving only one other door.

14.if secret_winning_door != my_door_choice: checks if your initial door choice is different from the wining door.

15.all_door_options_list.append(secret_winning_door) if your initial door choice was not the wining door, the secret wining door(the door with the prize) is added back to the list niw the list contains only the remaining two door.

16.my_door_choice = all_door_options_list[0] you switch your door choice to the remaining door in the list. since you always wil swap in this strategy, you switch to the only other door left in the game.

17.if my_door_choice == secret_winning_door: This code checks if the new door you switched if it is the wining door.

18.i_won += 1 If the door you switched to is the wining door you win and add to the counter by 1, keeping track of how many times you win.

19.i_won/reps After all the simulation has been completed this line calculate the proportion of games you won by switching doors.

https://chatgpt.com/share/66ec7aa5-e8f0-8007-9e3a-b80100d0e7b1

Q4 https://chatgpt.com/share/66ec7be5-6bf0-8007-a7a7-be6106469006

Q5 https://chatgpt.com/share/66ec7be5-6bf0-8007-a7a7-be6106469006

Q6 1. The chat box worked fine for me it understanded my questions and when i asked him to explain it to me it did and understanded my questions on it. 2. not really it explained it using lots of big words and many words sometimes usually i would let it regenerate it or let it summerises the things it said but usually its response meake sense and did not start bluffing. 3.i will say that chat bot is the best tool to use if no one is teaching you.

q7 I think that my experience with chat GPT is a solid 7/10 with the ai driven assistance wiils in the context of learning, HOWEVER my experience of how it was tought to us is a 2/10 i have no expereience in coding before so The first homework was the most confusing thing i have ever done the constructions are really confusing i think that it would be nice if the codes are teached in class and then chat can be a tool to enforce our learning.

Q8 1,2,3 https://chatgpt.com/share/66ec84d0-d528-8007-ae61-a3aea962c2d2 4. i used stock breaker to be a choice of carere and chat gpt told me things that i already know to really be a stock breaker Earn a Degree: Start with a degree in finance, economics, or business. such as Gain Internship Experience: Interning at a financial institution or investment firm helps build experience and connections. Obtain Licensing: Pass the necessary exams (e.g., Series 7 & 63) to become a registered broker. Build a Client Base: Strong networking skills are crucial for acquiring and retaining clients. Keep Learning: Stay updated with market trends, new regulations, and emerging financial technologies. 5. Personally i think this chatbot setion was not really helpfull for me it was not really deep in content and if someone really on to become the carrer and followed chat I think that it does provide a outerlayer of things to do and thats really it.

Q9 yes