

# $\epsilon$ – Greedy

```
In [1]: import pandas as pd
import numpy as np
import matplotlib
import matplotlib.pyplot as plt
import random

import requests

def pull(user_group, secret_key, arm):
    url = ('http://10.243.255.29:5787/pull_arm/%s/%s/%s' % (user_group, secret_key, str(arm)))

    while True:
        r = requests.get(url)
        if r.ok:
            output = r.json()['result']
            return(output)

In [2]: arms = [str(x) for x in range(24)]
rewards = [0]*24
tries = [0]*24
mean_reward = [0]*24

result = pd.DataFrame({'arm': arms, 'reward': rewards, 'tries': tries, 'mean_reward': mean_reward})
```

In [3]:

```
def epsilon_greedy(n, p):
    winning_arm = str(random.randint(0,23))
    arms.remove(winning_arm)

    for i in range(n):
        if np.random.uniform() <= p:
            output_dict = pull('user24','IyqHJZcK', random.choice(arms))

        else:
            output_dict = pull('user24','IyqHJZcK', winning_arm)

        result['reward'].loc[result['arm'] == output_dict['Arm']] += output_dict['Reward']
        result['tries'].loc[result['arm'] == output_dict['Arm']] += 1
        result['mean_reward'].loc[result['arm'] == output_dict['Arm']] = result['reward']/result['tries']

        new_winning_arm = result['arm'].loc[result['mean_reward'] == result['mean_reward'].max()].values[0]

        if new_winning_arm in arms:
            arms.remove(new_winning_arm)
            arms.append(winning_arm)

            winning_arm = new_winning_arm

        else:
            continue

    return result
```

In [4]:

```
epsilon_greedy(180, 0.3)
```

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A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: [https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#return](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#return)

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A value is trying to be set on a copy of a slice from a DataFrame
```

See the caveats in the documentation: [https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy)

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```

```
self._setitem_single_block(indexer, value, name)
```

```
/Users/salimwid/opt/anaconda3/lib/python3.8/site-packages/pandas/core/indexing.py:1637: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
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```
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
```

```
self._setitem_single_block(indexer, value, name)
```

```
Out[4]:
```

	arm	reward	tries	mean_reward
0	0	2277	90	25.300000

<b>1</b>	1	0	0	0.000000
<b>2</b>	2	26	4	6.500000
<b>3</b>	3	35	2	17.500000
<b>4</b>	4	12	2	6.000000
<b>5</b>	5	30	2	15.000000
<b>6</b>	6	6	1	6.000000
<b>7</b>	7	66	4	16.500000
<b>8</b>	8	89	4	22.250000
<b>9</b>	9	18	2	9.000000
<b>10</b>	10	15	1	15.000000
<b>11</b>	11	43	2	21.500000
<b>12</b>	12	48	4	12.000000
<b>13</b>	13	17	2	8.500000
<b>14</b>	14	31	2	15.500000
<b>15</b>	15	45	6	7.500000
<b>16</b>	16	45	7	6.428571
<b>17</b>	17	15	1	15.000000
<b>18</b>	18	48	3	16.000000
<b>19</b>	19	23	1	23.000000
<b>20</b>	20	638	30	21.266667
<b>21</b>	21	84	4	21.000000
<b>22</b>	22	40	3	13.333333
<b>23</b>	23	67	3	22.333333

```
In [5]: random.randint(0,23)
```

```
Out[5]: 2
```

```
In [7]: result.to_csv('greedy_result.csv')
```

```
In [ ]:
```