numpy

5/5

May 20, 2024

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```
#another way to dot matrices (arrays)
import numpy as np
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[ ]:
```
array1 = np. array([[1,2],[3,4]])
array2 = np. array([[5,6],[7,8]])
```

[ ]:
```
dot_array1= (array1 @ array2)
print(dot_array1)

dot_array2= np.dot(array1,array2)
print(dot_array2)
```

```
[[19 22]
 [43 50]]
[[19 22]
 [43 50]]
```

[ ]:
```
#adding and removng elements in arrays
#resize()
# is used to change the size of an array
resized_array = np.resize(array1,(3,3))
print(resized_array)
```

```
[[1 2 3]
 [4 1 2]
 [3 4 1]]
```

[ ]:
```
#append()
# is used to add elements in an array
np. append(array2,[4,5])
```

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```
array([5, 6, 7, 8, 4, 5])
```

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```
#insert()
# is used to insert an element in a specified position of an array
np.insert(array1,1,[5,6],axis=0)
```

[ ]:
```
array([[1, 2],
       [5, 6],
       [3, 4]])
```

[ ]:
```
#delete()
# is used to delete a specified element from an exiting array
np.delete(array1,1,axis=0)
```

[ ]:
```
array([[1, 2]])
```