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IST 652, Week 4

Activity 4.4: numpy arrays

Code:

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﻿﻿import numpy as np

a = np.array([1,2,3])

b = np.array([[1,2,3],[4,5,6]])

arrJ = np.array([[1,2,3,4,5],

[6,7,8,9,10],

[11,12,13,14,15],

[16,17,18,19,20]])

arrJ

arrJ.shape

# Use Index Slicing and show how to get the

# subarray consisting of the last two rows and the third and fourth columns.

# so would want [13,14] and [18.19]

# final 2 x 2

finarrJ = arrJ[2:4, 2:4]

finarrJ

finarrJ.shape

# one dimensional array of the sums of the columns

sumarrJ = np.sum(arrJ, axis=1)

sumarrJ

Output:

﻿import numpy as np

a = np.array([1,2,3])

b = np.array([[1,2,3],[4,5,6]])

arrJ = np.array([[1,2,3,4,5],

[6,7,8,9,10],

[11,12,13,14,15],

[16,17,18,19,20]])

arrJ

Out[26]:

array([[ 1, 2, 3, 4, 5],

[ 6, 7, 8, 9, 10],

[11, 12, 13, 14, 15],

[16, 17, 18, 19, 20]])

arrJ.shape

Out[27]: (4, 5)

# final 2 x 2

finarrJ = arrJ[2:4, 2:4]

finarrJ

Out[35]:

array([[13, 14],

[18, 19]])

finarrJ.shape

Out[36]: (2, 2)

# one dimensional array of the sums of the columns

sumarrJ = np.sum(arrJ, axis=1)

sumarrJ

Out[39]: array([15, 40, 65, 90])