CHEAT SHEET

MOST USED NumPy METHODS

created by Terezija Semenski

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NUMPY METHODS

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ARRAY CREATION

np.array(list)	NumPy array from Python list
np.array(pandas-series)	NumPy array from PD series
np.zeroes()	NumPy array of all zeros
np.ones()	NumPy array of all ones
np.eye()	identity NumPy array
np.arange(start,stop,step)	equally spaced NumPy array with specific step
np.linspace(start, stop, count)	equally spaced NumPy array with specific size
np.random.radint(low, high, size)	NumPy array of random ints

ARRAY MANIPULATION

array.reshape(new_shape)	reshape NumPy array
array.concatenate(arrays, axis)	concatenate NumPy arrays
np.transpose()	transpose NumPy array
array.flatten()	flatten NumPy array
np.unique(array, axis)	find unique elements
array.tolist()	NumPy array to list

SEARCH

np.argmin(array, axis)	min element index
np.argmax(array, axis)	max element index
np.nonzero(array)	indices of non-zero elements
np.where(condition, true_r_v, false_r_v)	conditional search and replacement

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MATH OPERATIONS

np.floor(array)	element-wise floor value
np.ceil(array)	element-wise ceiling value
np.round(array,decimal_places)	round to decimal places
np.rint(array)	round to the nearest int
np.sqrt(array)	element-wise square root
np.exp(array)	element-wise exponent
np.log(array)	element-wise logarithm
np.sum(array,axis)	sum along the axis
np.mean(array,axis)	mean along the axis
np,std(array,axis)	st.dev. along the axis

VECTOR AND MATRIX OPERATIONS

np.linalg.norm(array)	vector norm
np.dot(first_array,second_array)	dot product
np.matmul(first_array,second_array)	matrix multiplication
first_array @ second_array	matrix multiplication

SORTING

np.sort(array, axis)	sort NumPy array
np.argsort(array, axis)	return order of indices that sort the array

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