NumPy Cheat Sheet

np.array()
Usage: Create an array

np.reshape()
Usage: Reshape the size of matrix

np.flatten()
Usage: Flatten a matrix to a NumPy vector

np.eye()
Usage: Create identity matrix

np.zeros()
Usage: Create a matrix of all zeros

np.arange()
Usage: Create a vector of equally spaced values

np.dot()
Usage: Matrix multiplication. An alternative syntax is @.

np.transpose()
Usage: Transpose a matrix. An alternative syntax is .T

np.amax()
Usage: Find the maximum value of an array

np.amin()
Usage: Find the minimum value of an array

np.argmax()
Usage: Find the indices of the maximum value of an array

np.argmin()
Usage: Find the indices of the minimum value of an array

np.sum()
Usage: Sum an array

np.mean()
Usage: Find the mean of an array

np.vstack()
Usage: Stacking arrays or vectors vertically

np.hstack()
Usage: Stacking arrays or vectors horizontally

np.exp()
Usage: Calculate the exponential of all elements of an array

np.sqrt()
Usage: Return the non-negative square root of each element of an array

np.square()
Usage: Return the square of each element of an array