# Numpy

# Padding

A = np.array([[1,2],[3,4]])

np.pad(A, ((1,2),(2,1)), 'constant')

#array([[0, 0, 0, 0, 0], # 1 zero padded to the top

# [0, 0, 1, 2, 0], # 2 zeros padded to the bottom

# [0, 0, 3, 4, 0], # 2 zeros padded to the left

# [0, 0, 0, 0, 0], # 1 zero padded to the right

# [0, 0, 0, 0, 0]])