

## 1- Convolution Basics

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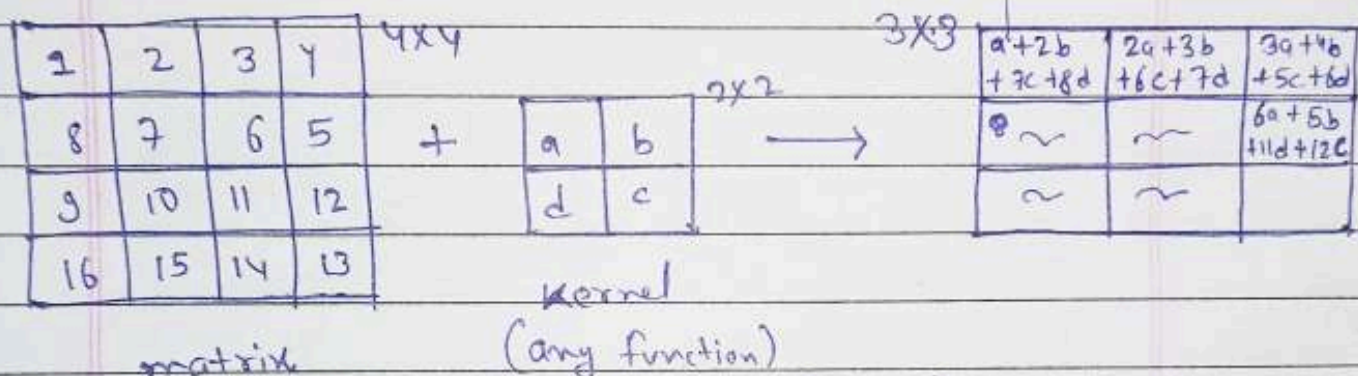


Fig. 1: Convolution with stride 1

### Coding prerequisites :-

- (1.) Python Lists
- (2.) Lists of matrices
- (3.) Dot product of those matrices.
- (4.) matplotlib (for visualisation)
- (5.) List to numpy conversion

concept: Converting List of 4x4 (values b/w 0 to 255) to an image.

im = Image (code in repo)

code example

0	1	2	3
7	6	5	4
8	9	10	11
15	14	13	12

matrix  
(4x4)

0.5	0
0.1	8

kernel  
(2x2)




output  
(3x3)

Maxpooling - Operation

