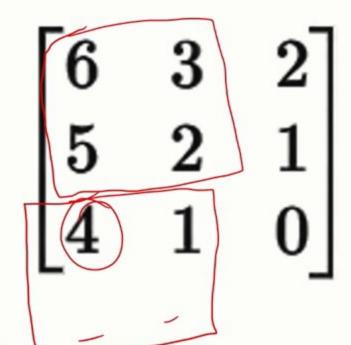
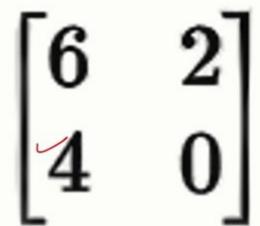
# MAX POOLING

Input



**Pooling matrix** 2x2

## Output



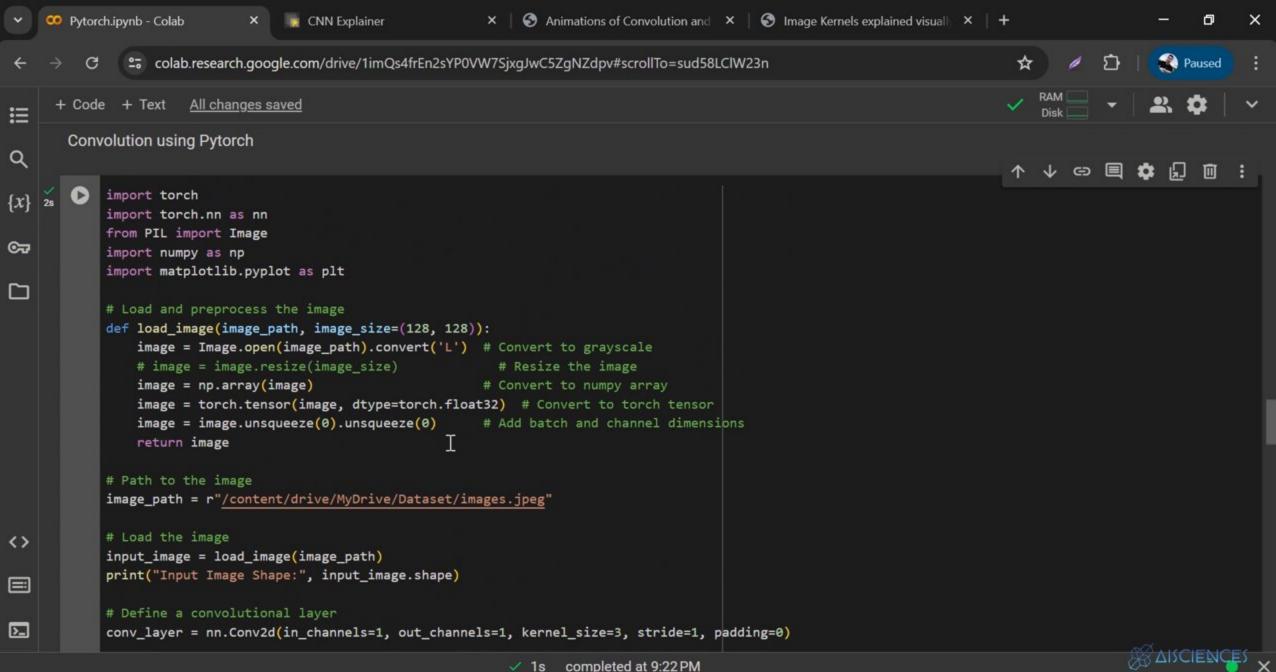


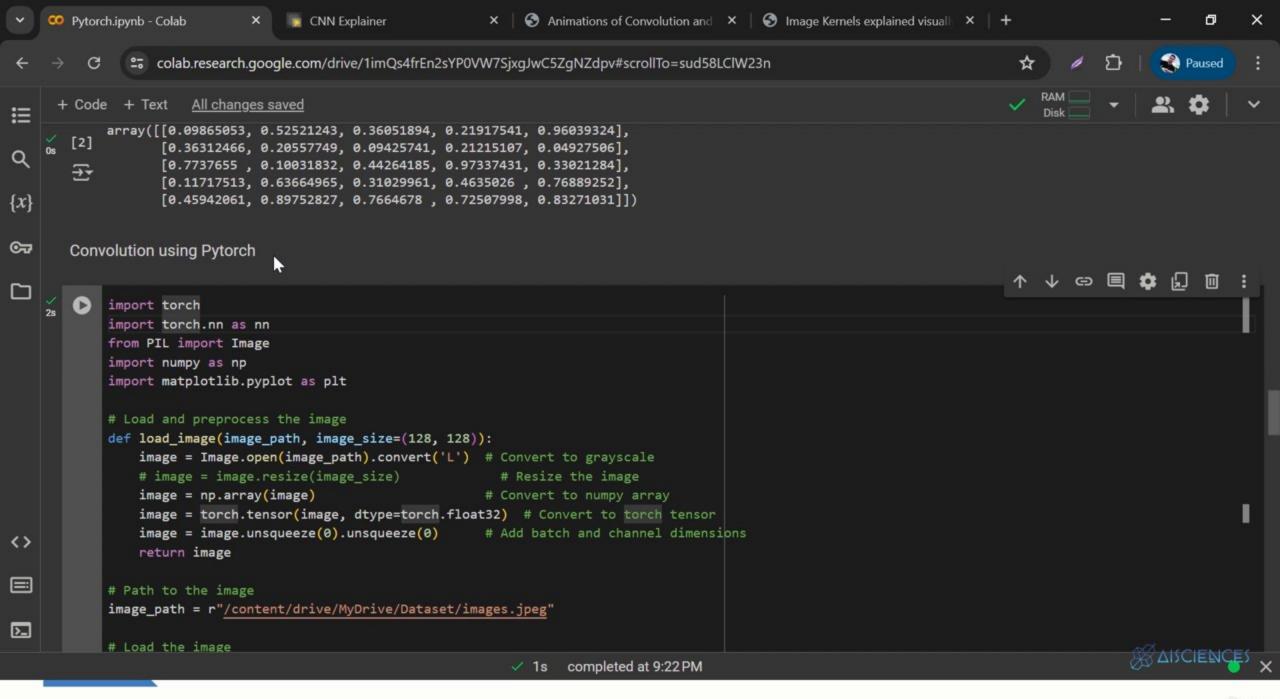


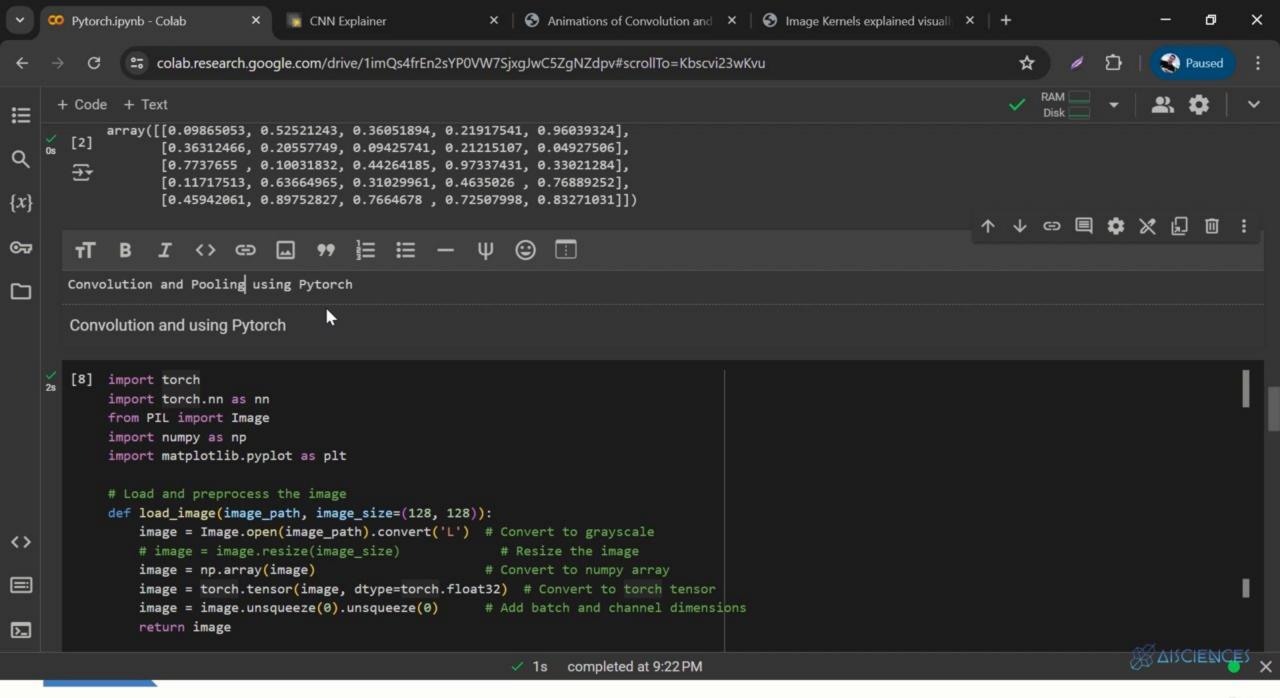


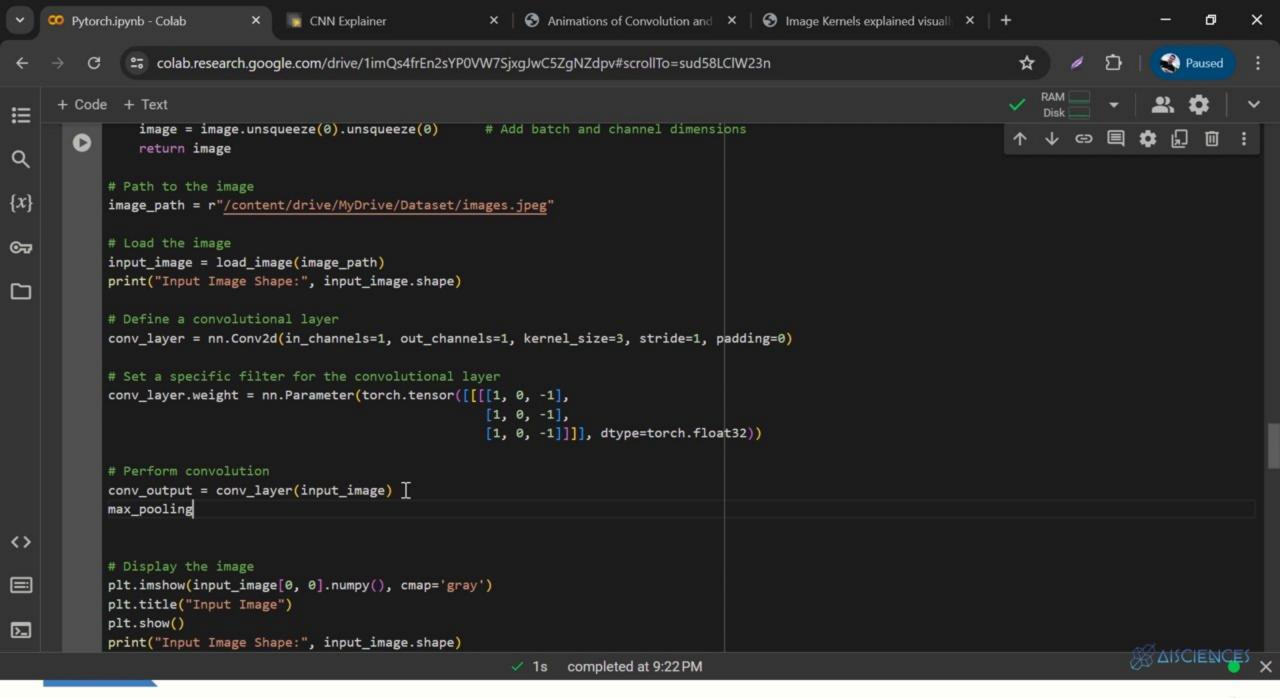


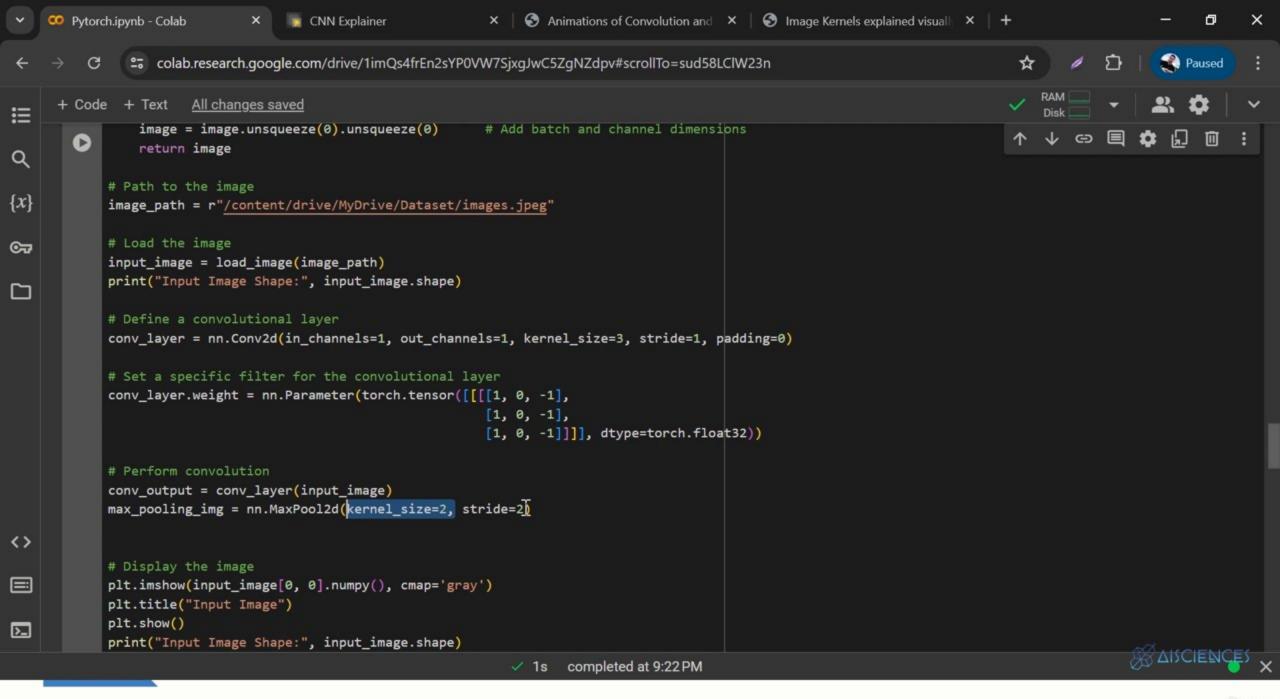


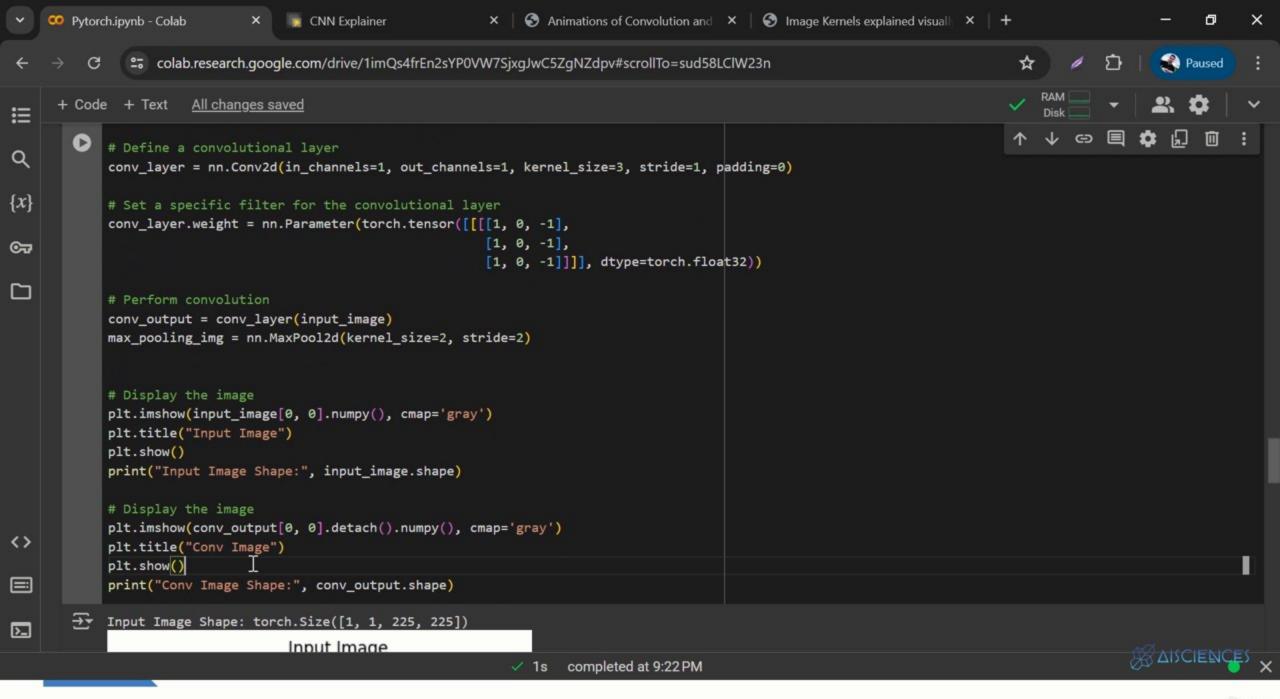


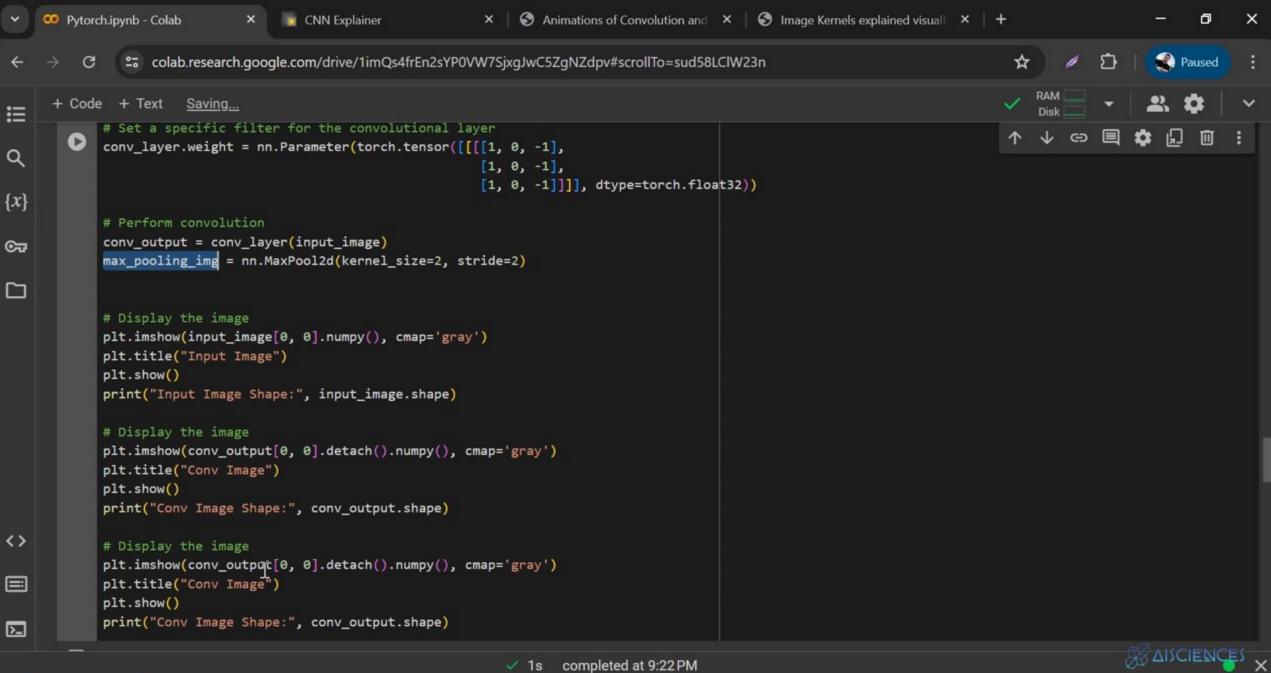


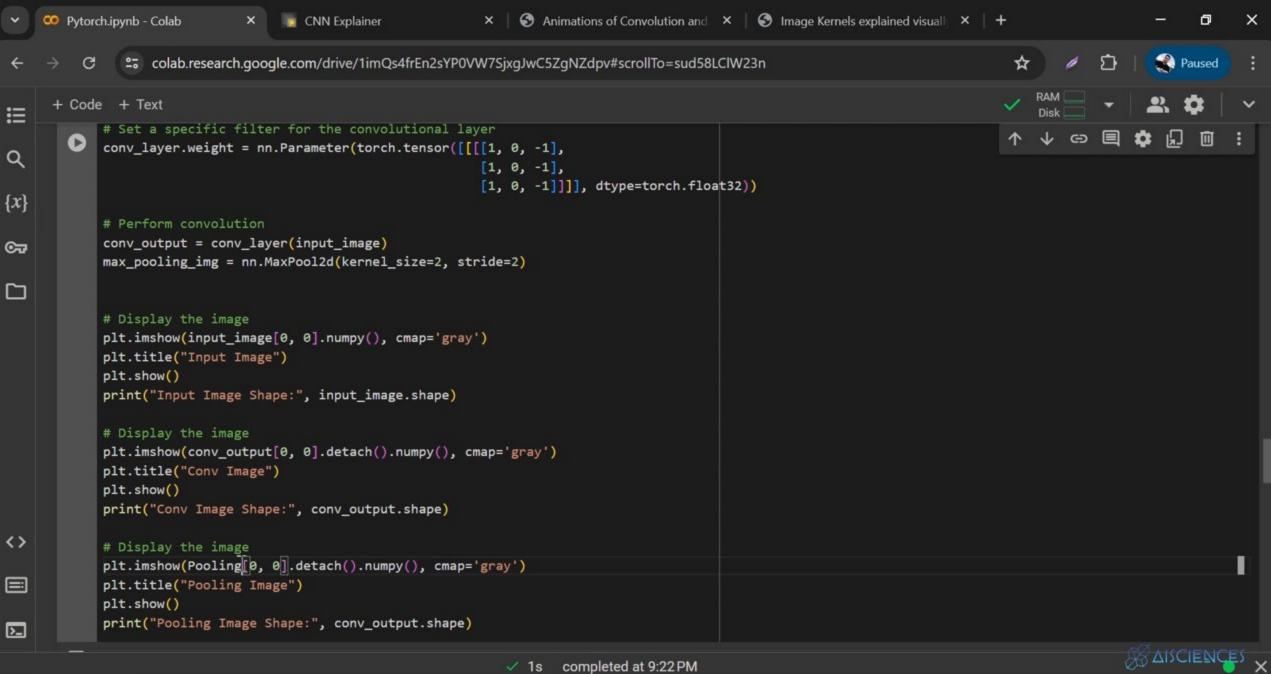


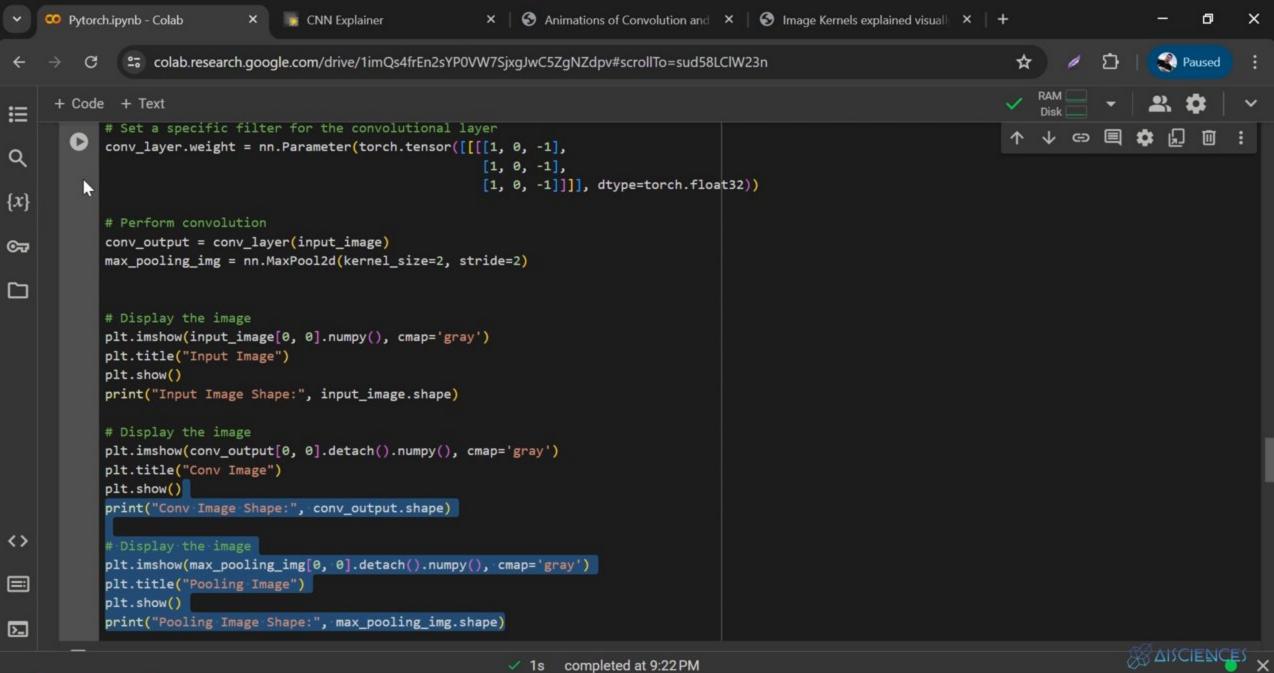


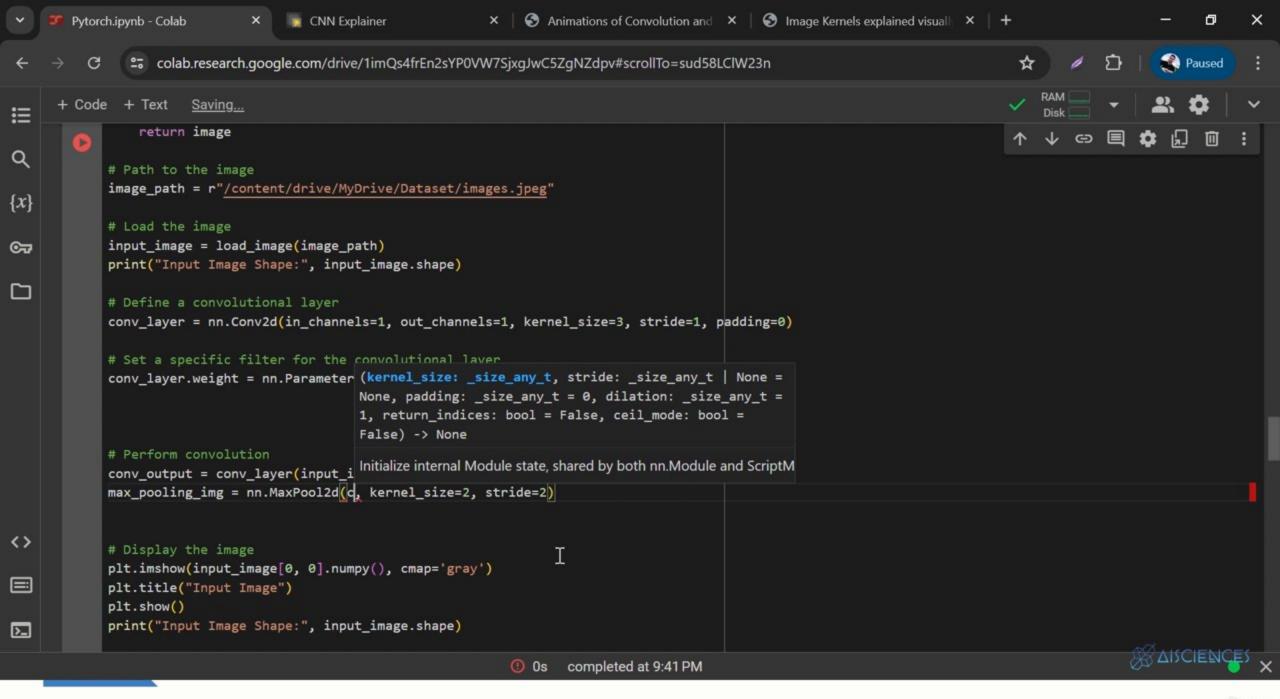


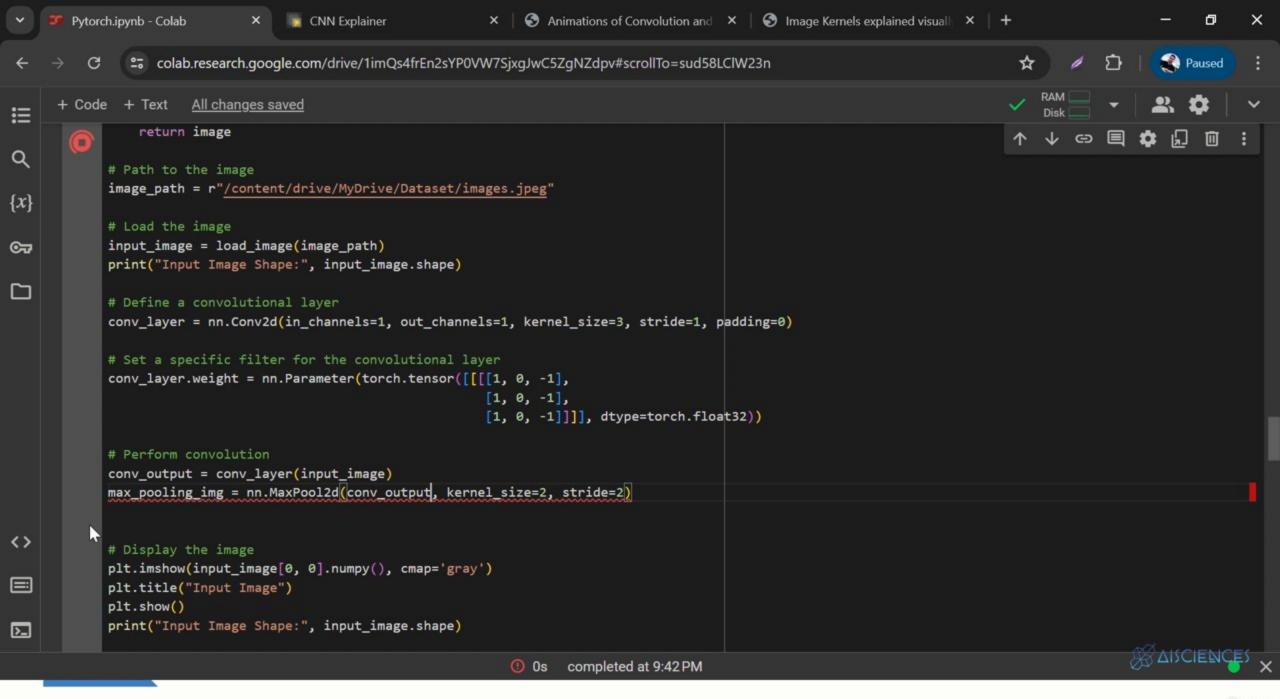


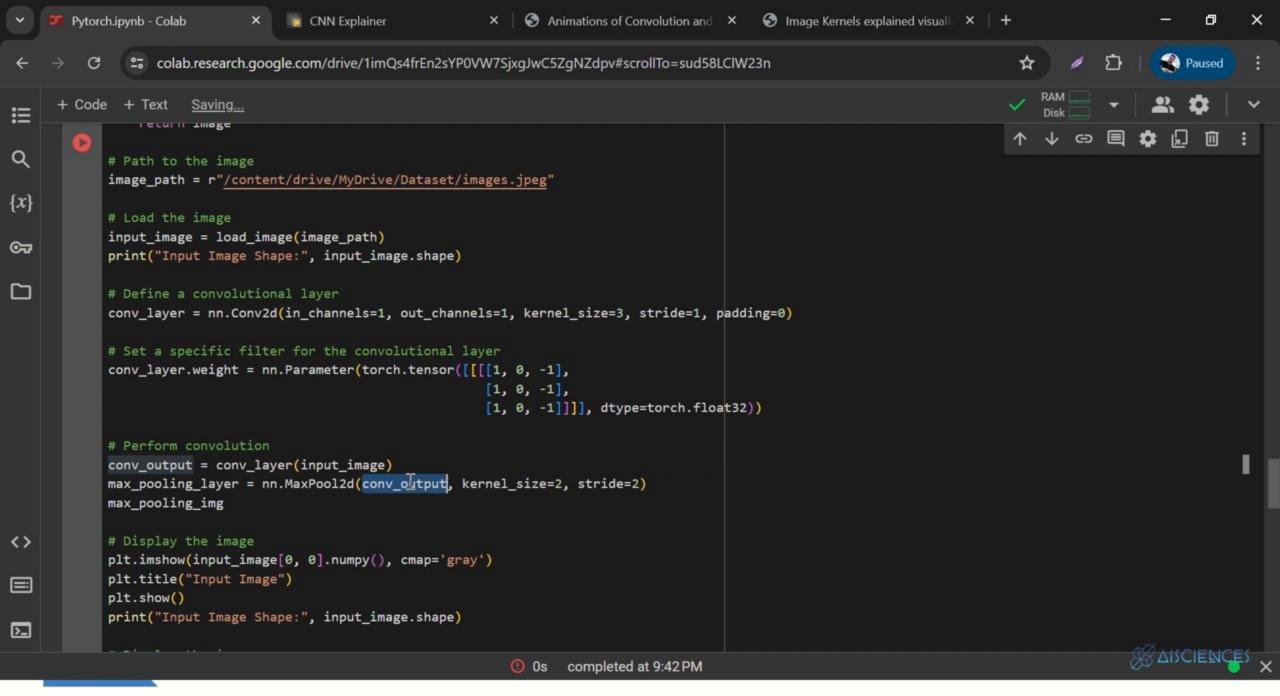


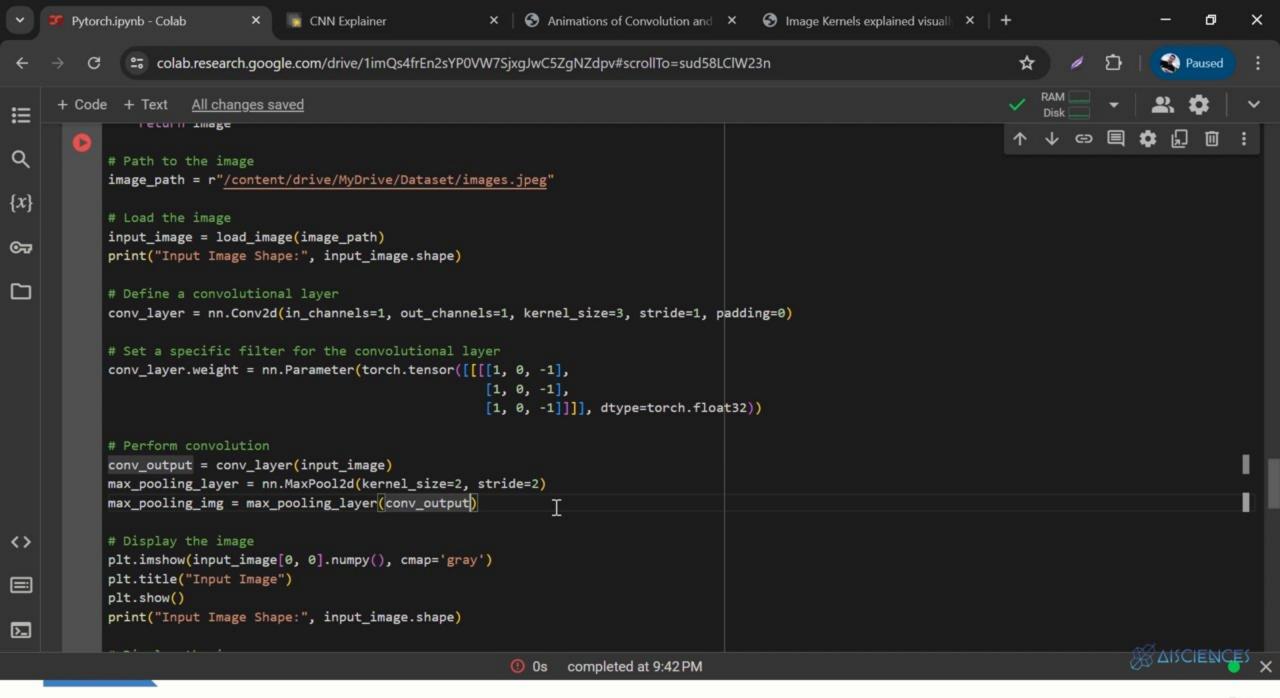


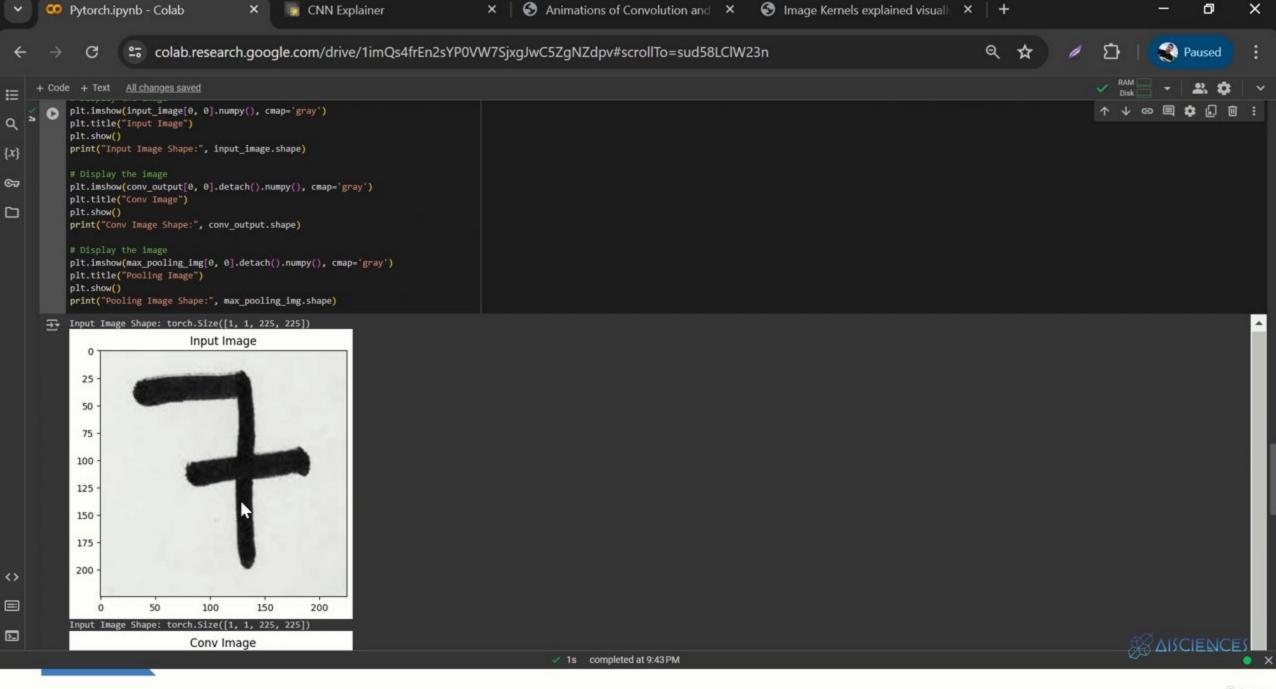


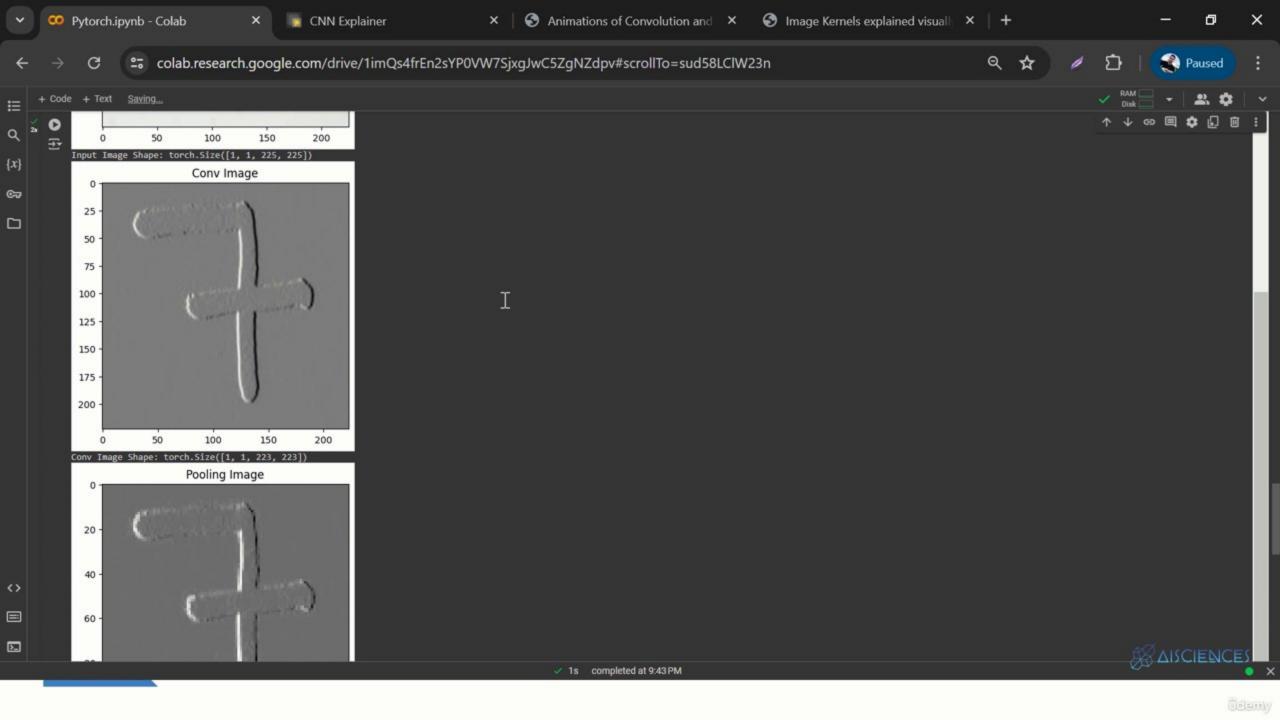


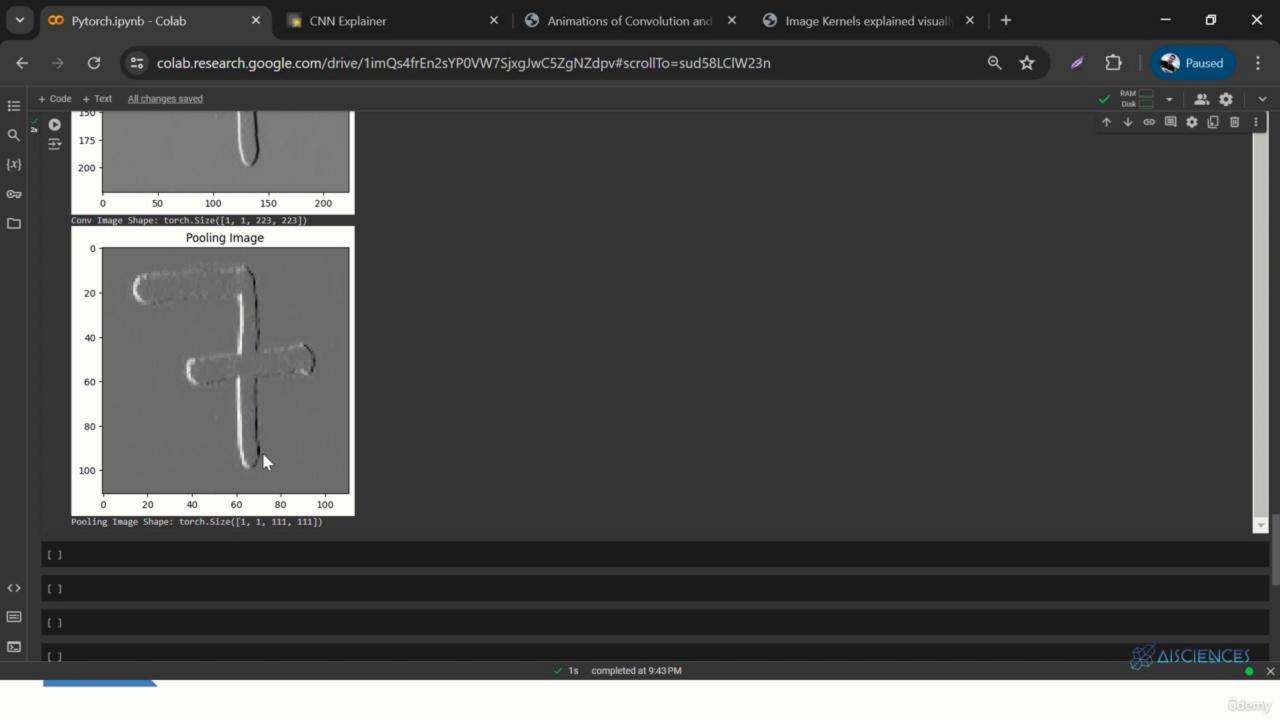


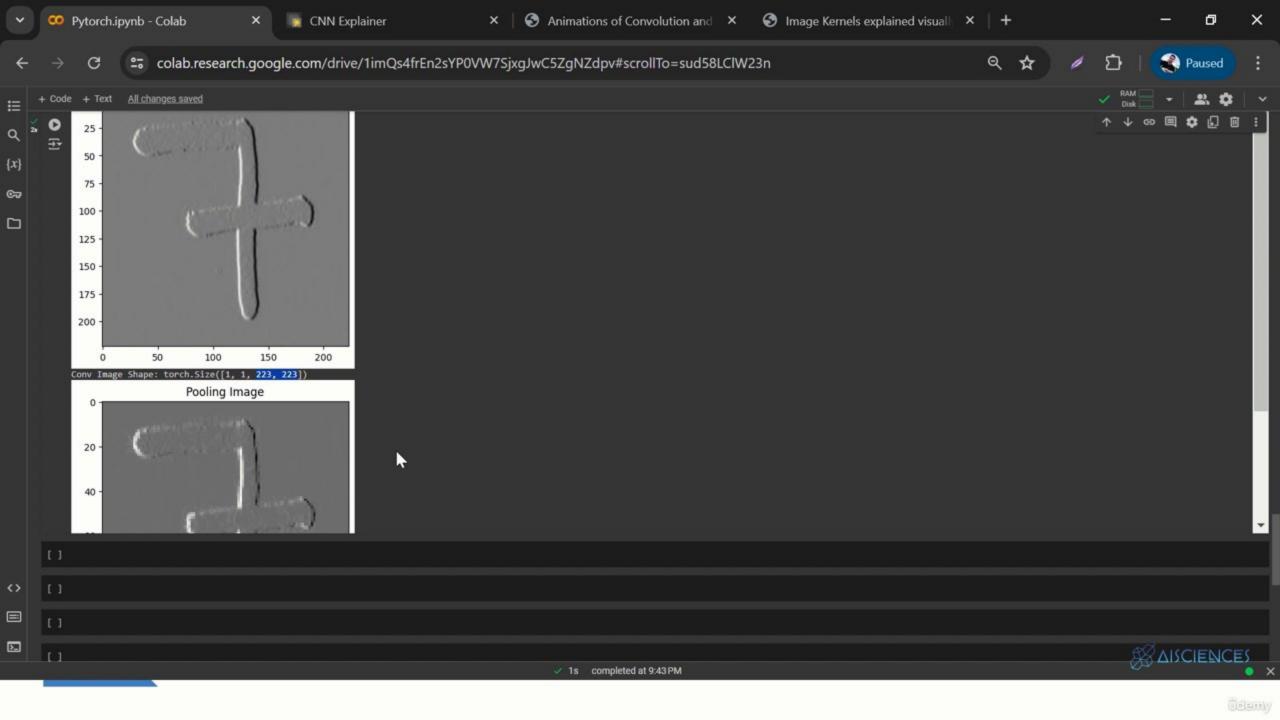


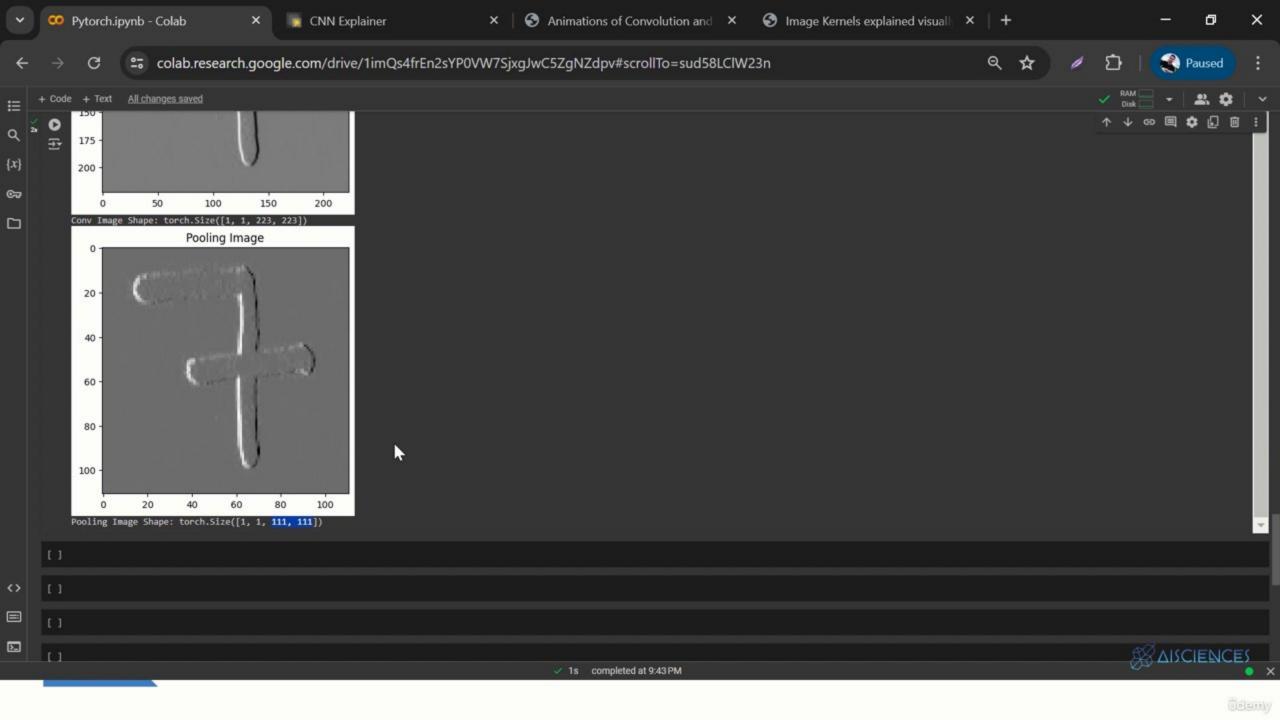


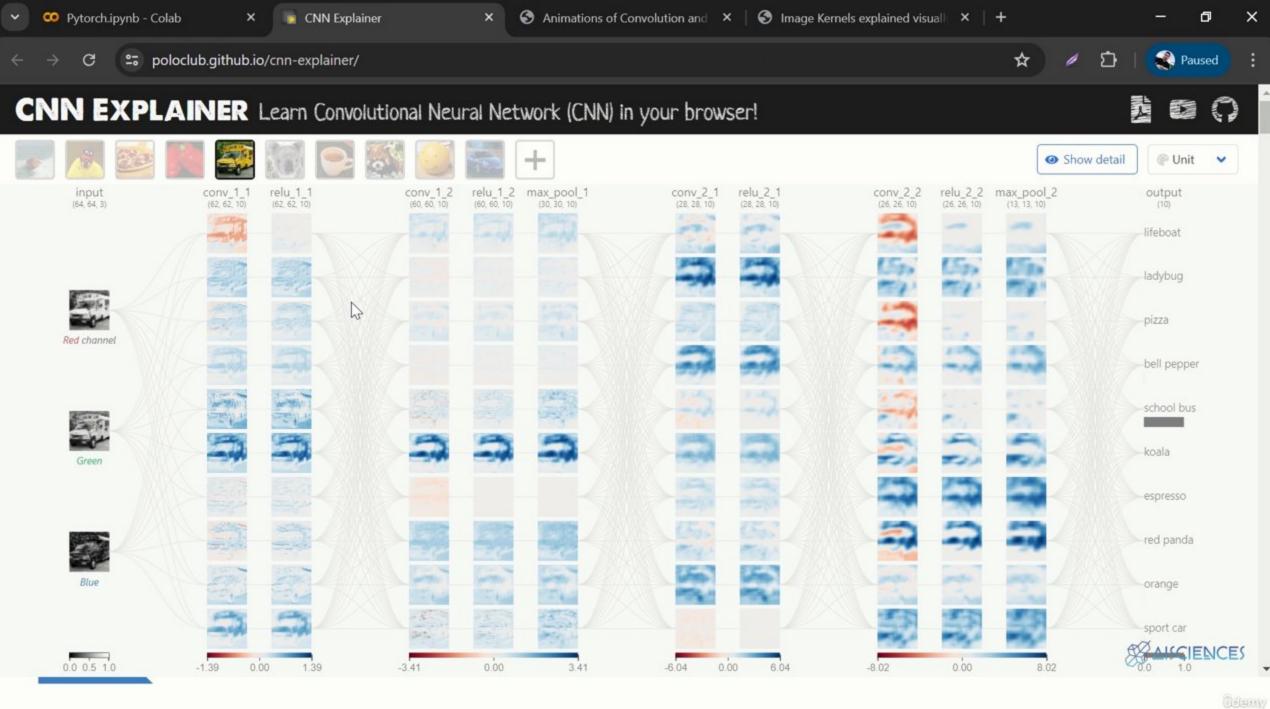


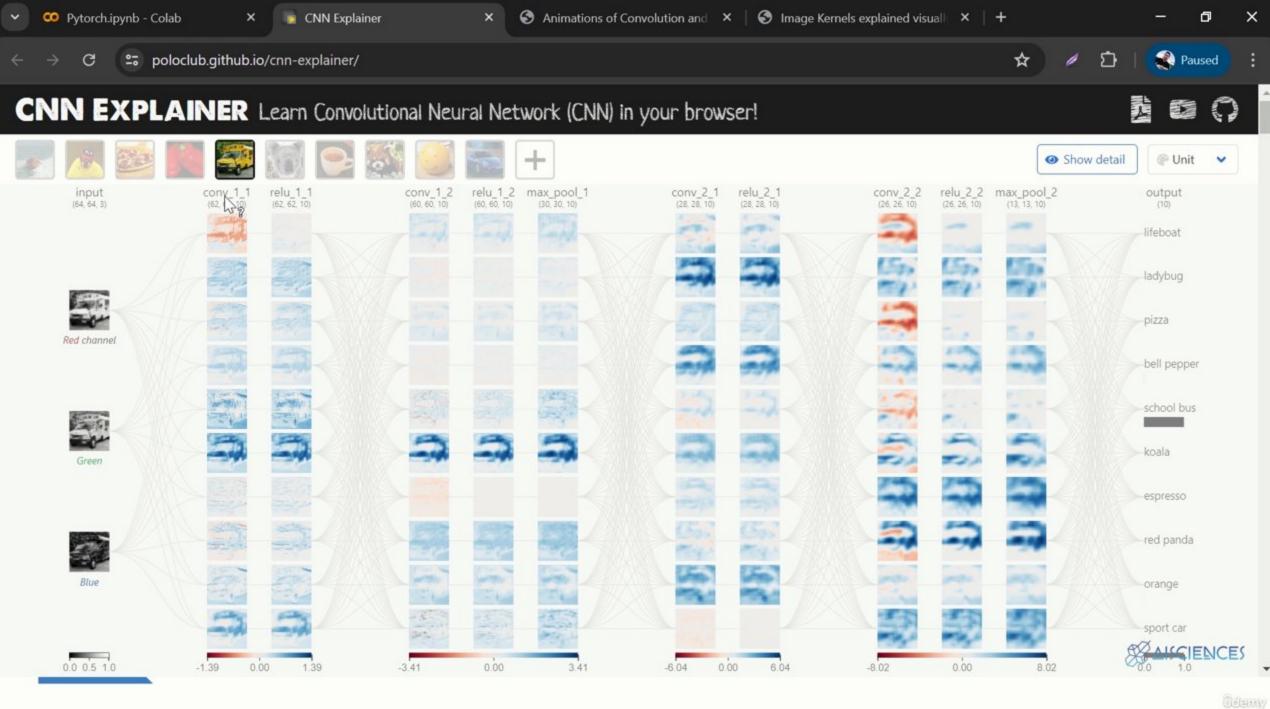


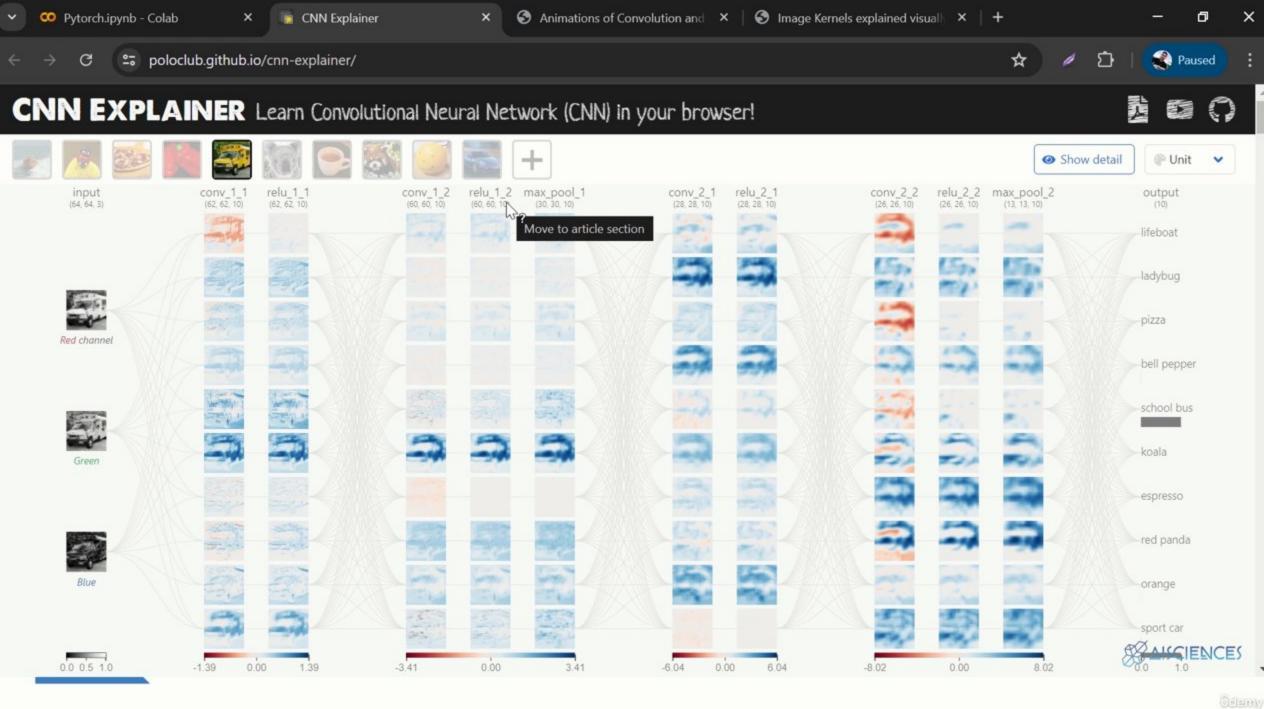


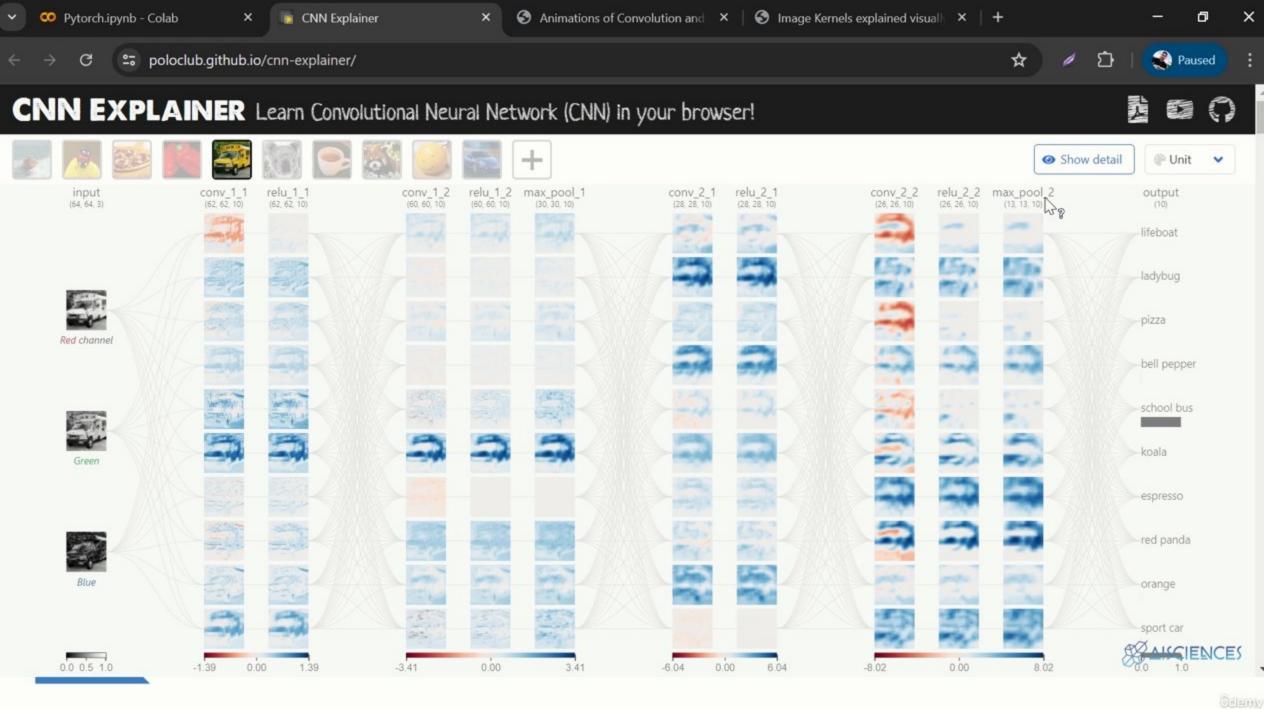


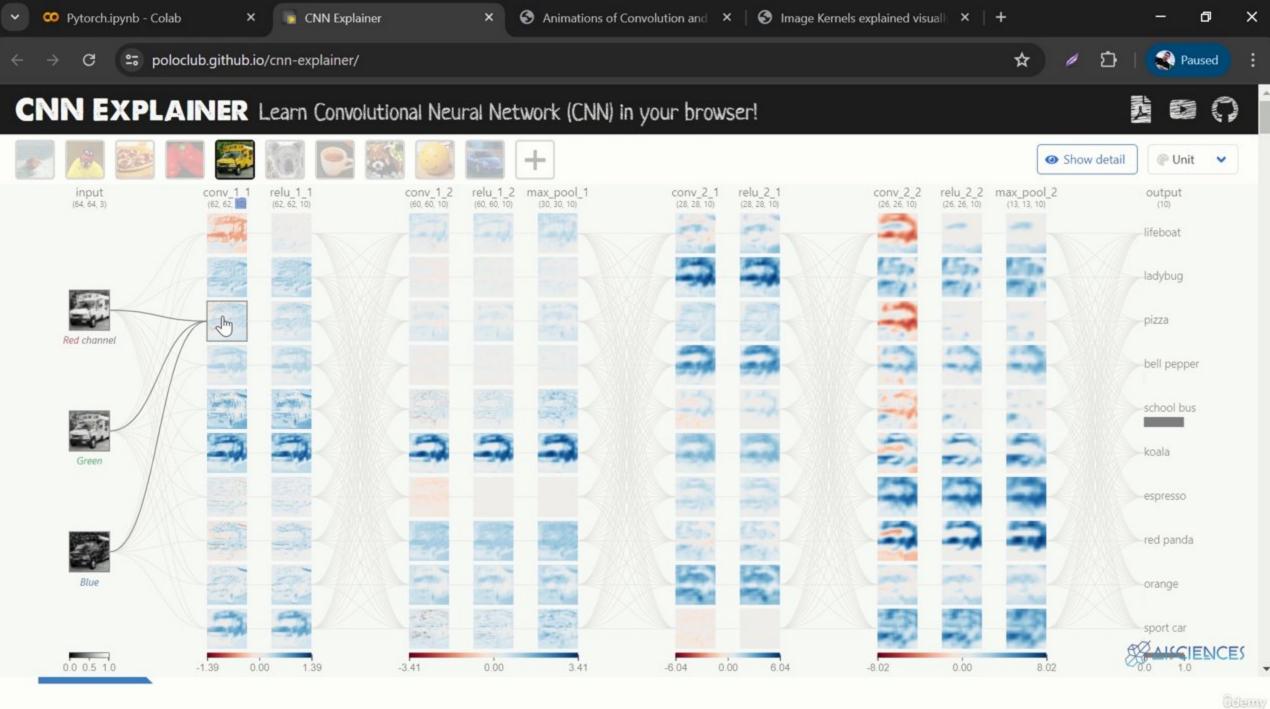


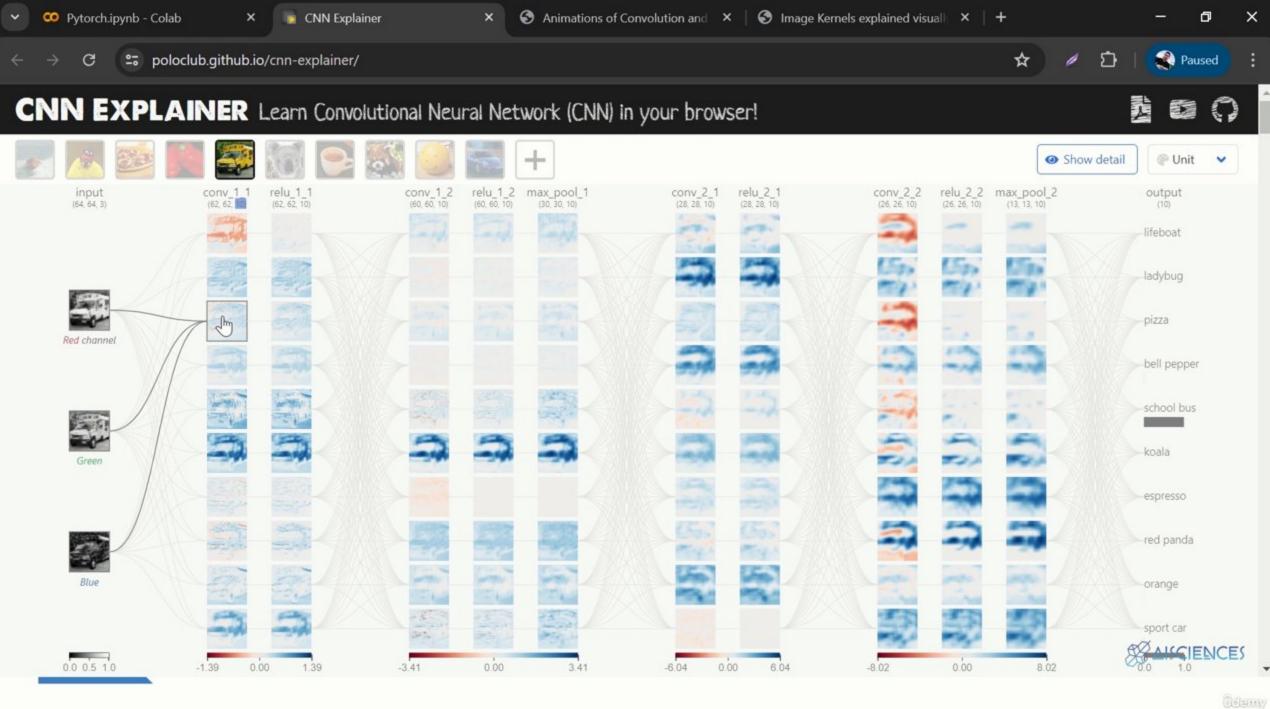


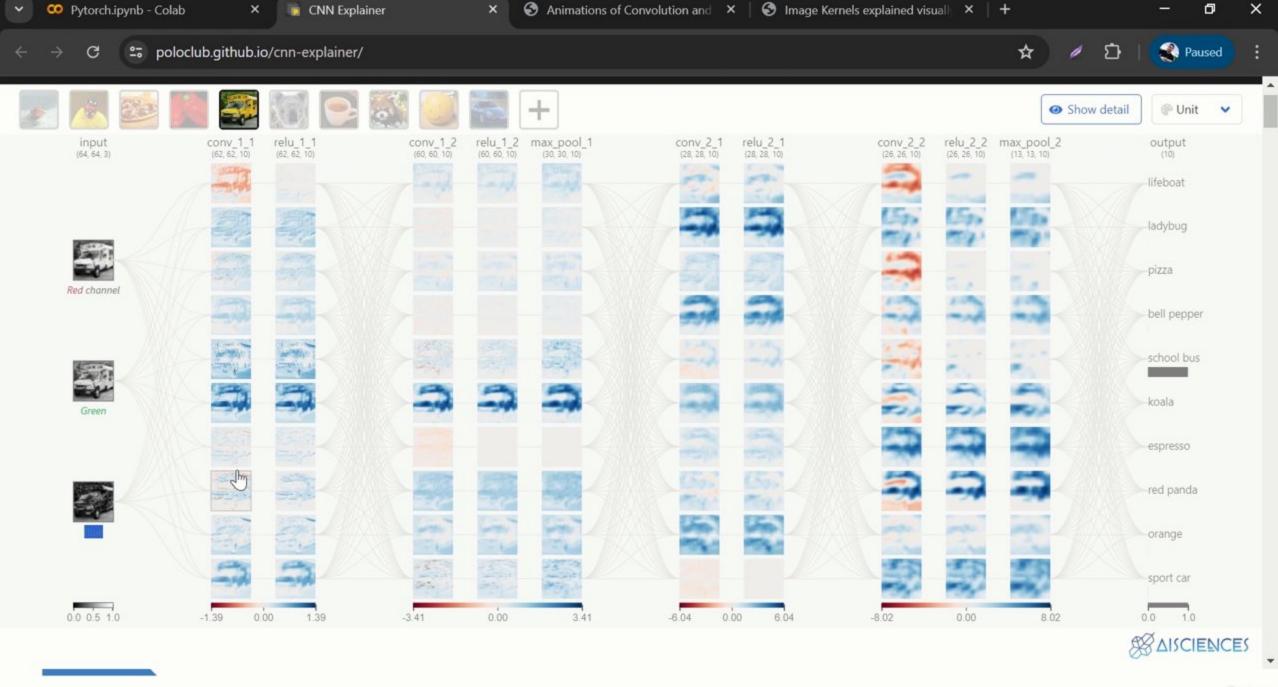


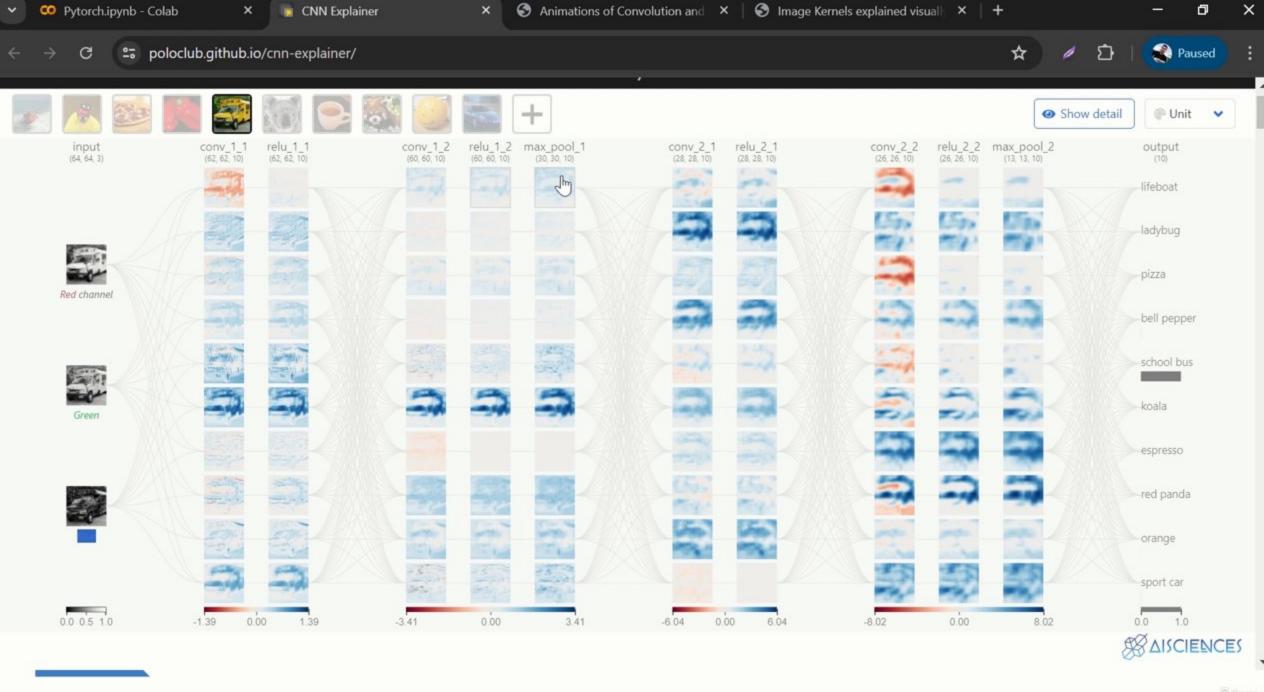


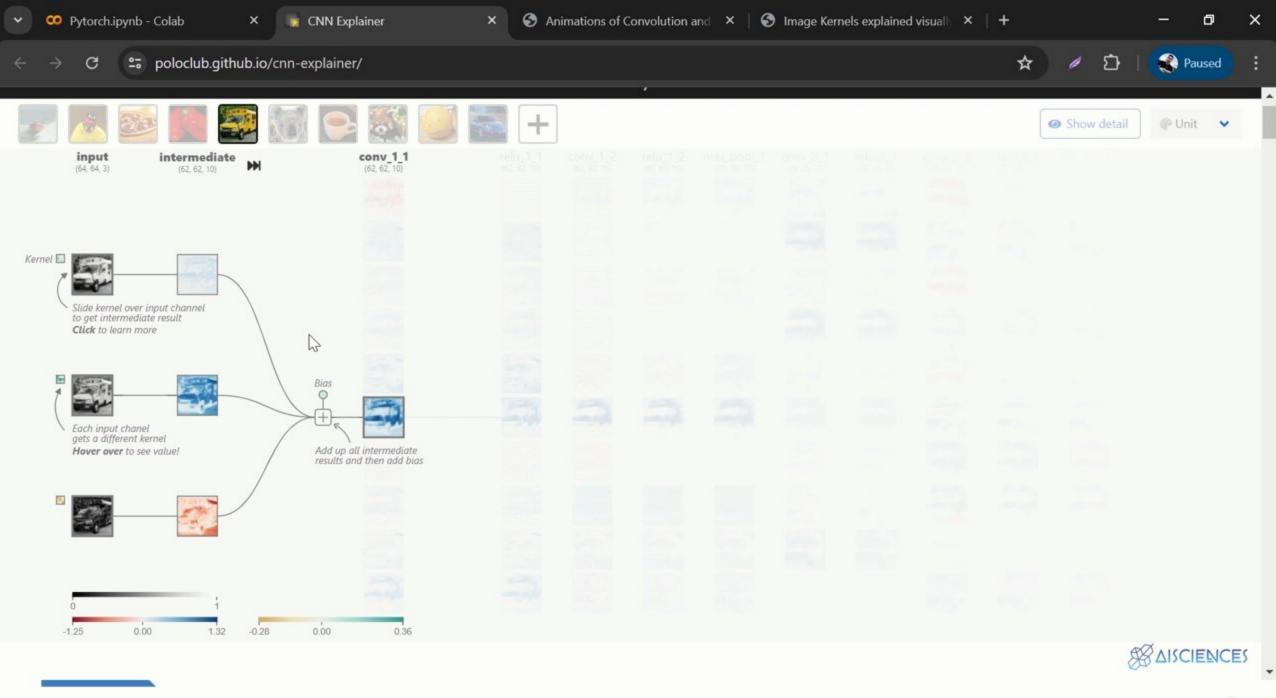


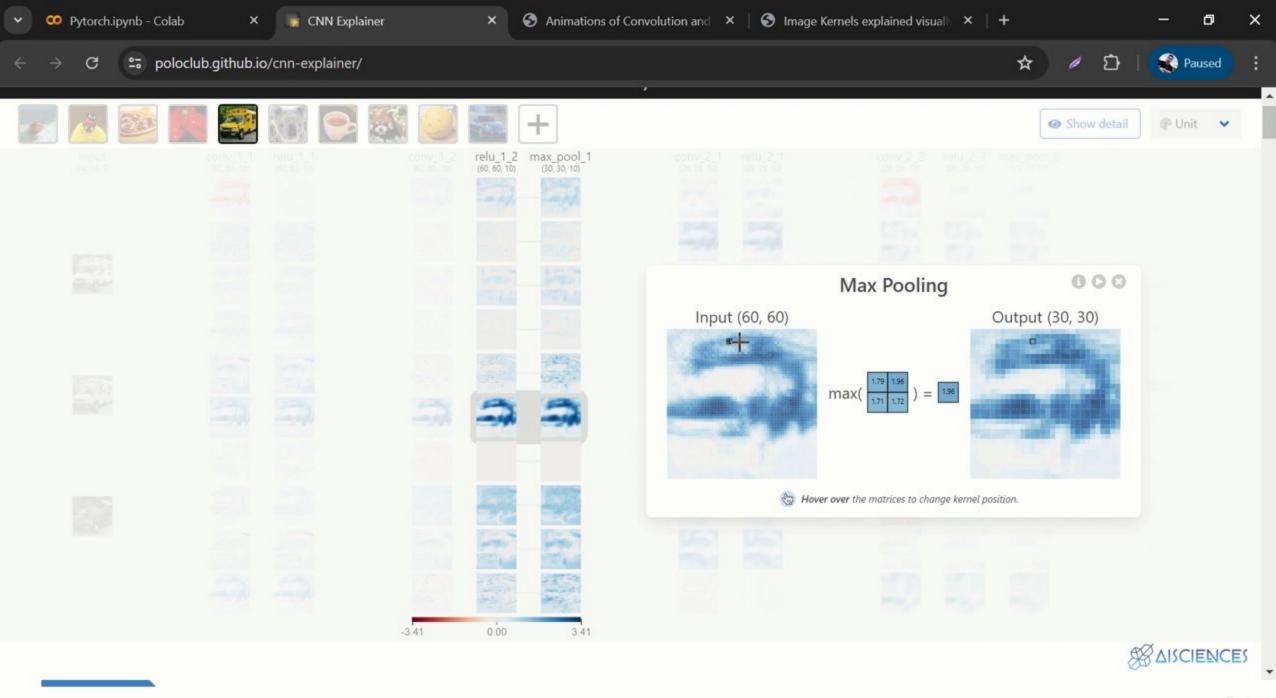


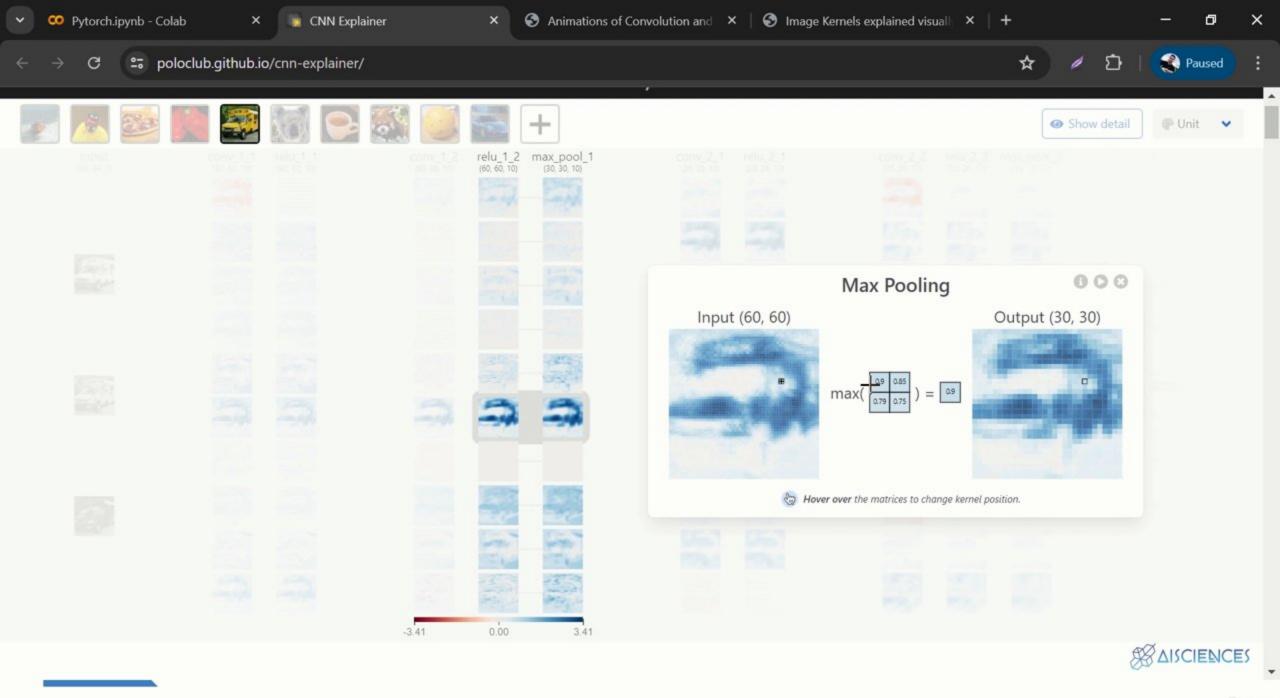


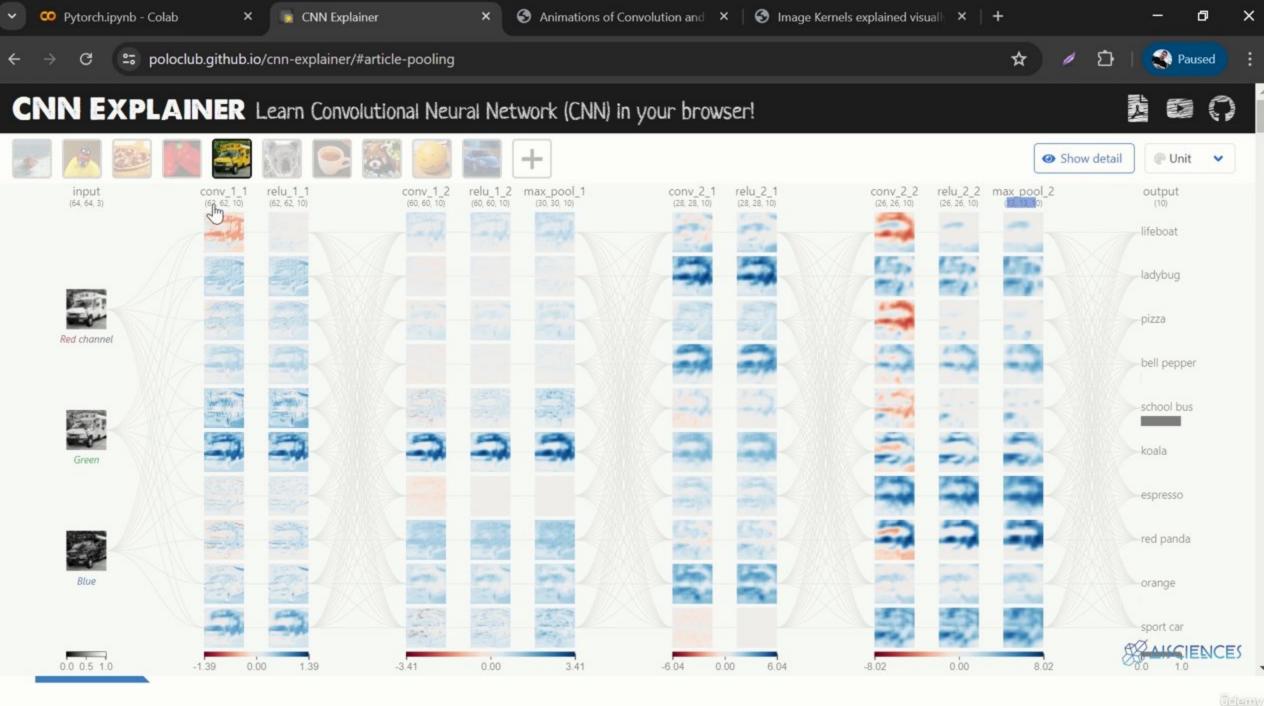


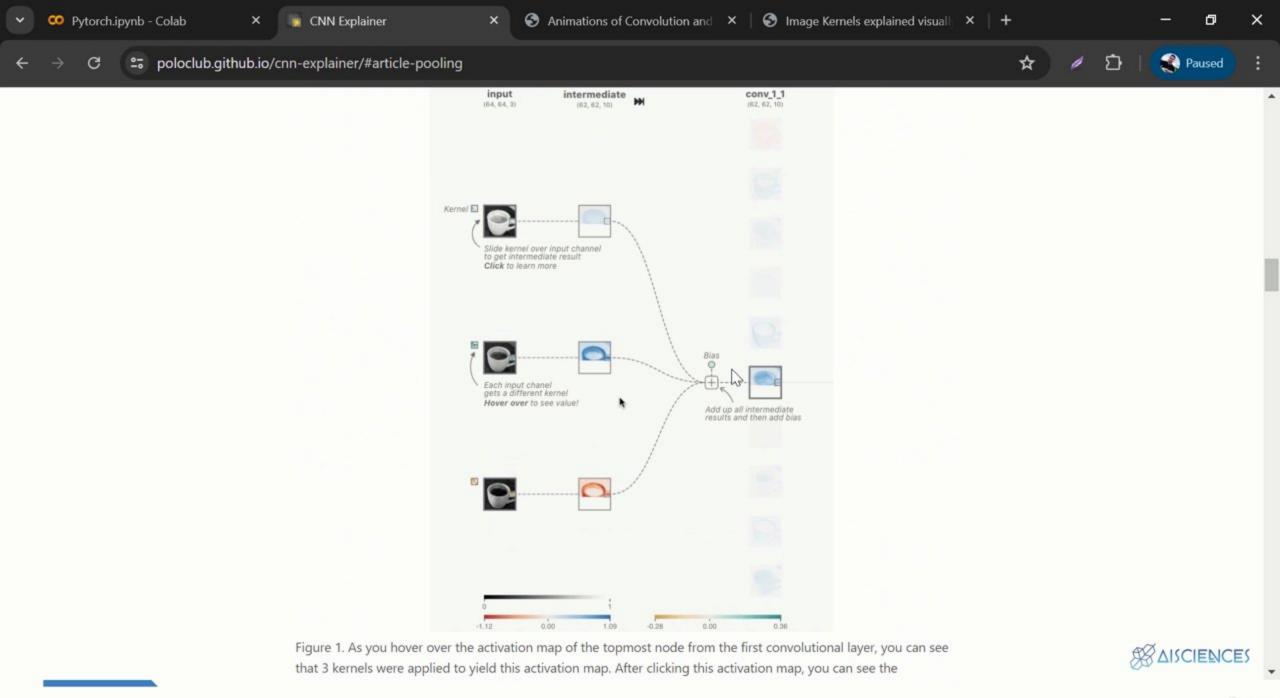












# MAX POOLING

Input

 $\begin{bmatrix} 6 & 3 & 2 \\ 5 & 2 & 1 \\ 1 & 1 & 0 \end{bmatrix}$ 

B

Pooling matrix 2x2

Output

 $egin{array}{c|c} 6 & 2 \ 4 & 0 \ \end{array}$ 



## CONVOLUTION

## Input

$$egin{bmatrix} 1 & 2 & 0 & 1 & 3 \ 4 & 1 & 0 & 2 & 1 \ 2 & 3 & 1 & 0 & 1 \ 1 & 2 & 0 & 1 & 3 \ 3 & 1 & 2 & 3 & 0 \ \end{bmatrix}$$

### Kernal

$$egin{bmatrix} 1 & 0 & -1 \ 1 & 0 & -1 \ 1 & 0 & -1 \ \end{bmatrix}$$

### Output

$$egin{bmatrix} 6 & 3 & 2 \ 5 & 2 & 1 \ 4 & 1 & 0 \end{bmatrix}$$

=3

