 Marwadi University	Marwadi University Faculty of Technology Department of Information and Communication Technology	
Subject: Machine Learning (01CT0519)	Aim: To observe the impact of the usage of the kernels over the image	
Experiment No: 11	Date:	Enrolment No: 92200133030

Aim: To observe the impact of the usage of the kernels over the image

IDE: Google Colab

Theory:

An image kernel is a small matrix used to apply effects like the ones you might find in Photoshop or Gimp, such as blurring, sharpening, outlining or embossing. They're also used in machine learning for 'feature extraction', a technique for determining the most important portions of an image. In this context the process is referred to more generally as "convolution".


Program (Code):

To be attached with

Results:

To be attached with

Apply 10 different functionality kernels over your own image and attach the images of all

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Observation and Result Analysis:

a. Name of Kernel-1: _____

Kernel-1 matrix:

Observation:

b. Name of Kernel-2: _____

Kernel-2 matrix:

Observation:

c. Name of Kernel-3: _____

Kernel-3 matrix:

Observation:

d. Name of Kernel-4: _____


Kernel-4 matrix:

Observation:

e. Name of Kernel-5: _____

Kernel-5 matrix:

Observation:

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f. Name of Kernel-6: _____

Kernel-6 matrix:

Observation:

g. Name of Kernel-7: _____

Kernel-7 matrix:

Observation:

h. Name of Kernel-8: _____

Kernel-8 matrix:

Observation:

i. Name of Kernel-9: _____

Kernel-9 matrix:

Observation:

j. Name of Kernel-10: _____

Kernel-10 matrix:

Observation:



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