**Machine Learning Module that Produces a Creative Output - Custom Code**

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**Change Background Function**

def change\_background() :

original = cv2.imread(file\_name)

background = cv2.imread('background.jpg')

bit\_mask = cv2.imread('./temp\_imgs/masks\_imgs/' + file\_name, 0)

final = cv2.imread('./temp\_imgs/final\_imgs/' + file\_name)

height, width, channels = original.shape

resized\_background = cv2.resize(background, (width, height))

equalizeImg = cv2.equalizeHist(bit\_mask)

bitwise\_and = cv2.bitwise\_and(final, final, mask=equalizeImg)

bitwise\_or = cv2.bitwise\_or(resized\_background, bitwise\_and)

print("saving changed background to temp folder")

CHANGE\_BACKGROUND\_DIR = "temp\_imgs/changed\_background\_imgs/"

cv2.imwrite(CHANGE\_BACKGROUND\_DIR + "changed\_background\_and.jpg", bitwise\_and)

cv2.imwrite(CHANGE\_BACKGROUND\_DIR + "changed\_background.jpg", bitwise\_or)

print("image background change completed")