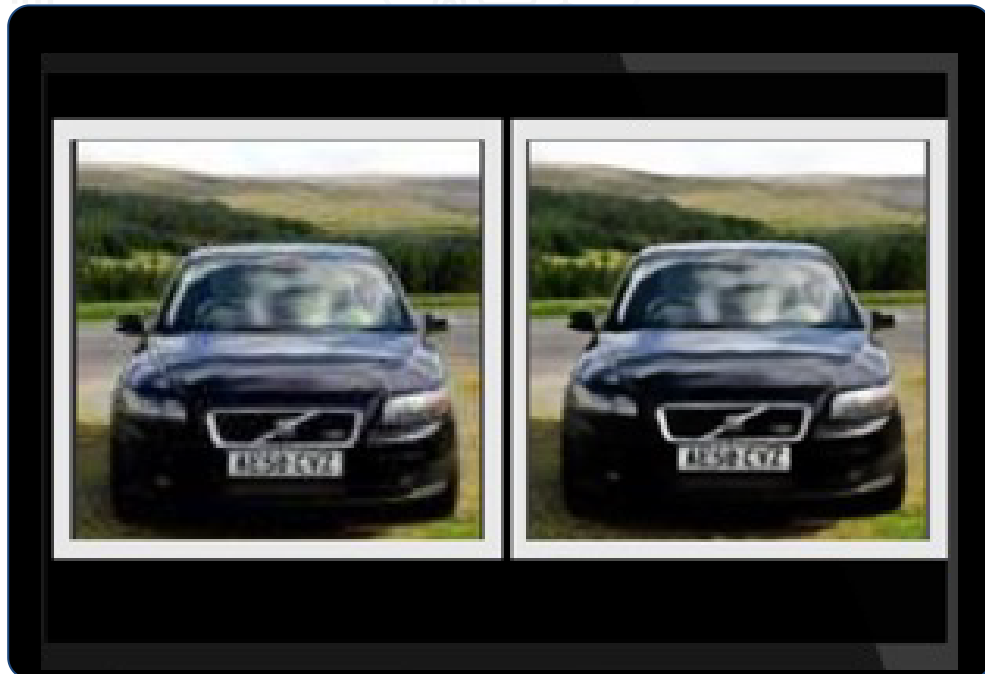
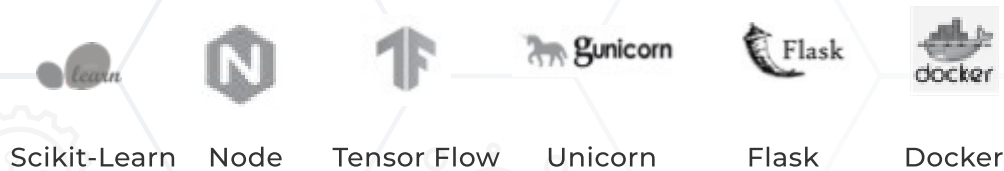


ARTIFICIAL INTELLIGENCE : BUILT A DEEP LEARNING MODEL FOR IMAGE IMPROVEMENT, IMAGE RESTORATION, & SUPER RESOLUTION

TECH STACKS:



CLIENT:

To upscale and/or to improve the details of a low-resolution image to give a high-resolution filled-in output where the details were previously unknown.

CHALLENGE:

Base architecture: RESNET50, U-Net
Designed a deep learning model without using a GAN, by taking the low-resolution image that lacks details and transferring the learnings from pretrained ImageNet models onto it, instead of approximating the values of new pixels based on nearby pixel values which leave much to be desired in terms of visual quality.

SOLUTION:

The model has multiple application in security and traffic surveillance. In healthcare and products, this model enables the visualization of molecular interactions at the nanoscopic level, opening new worlds of scientific understanding.