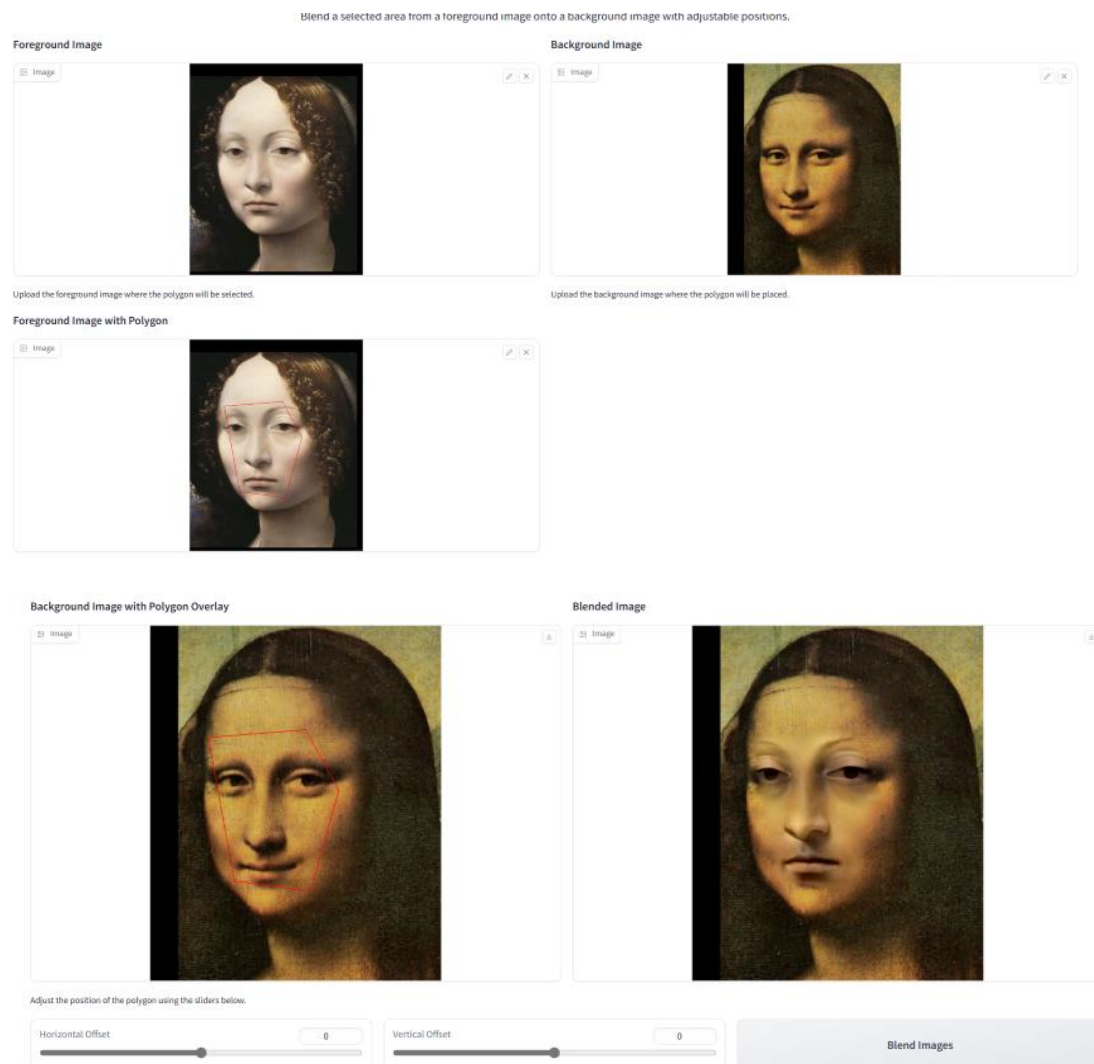


首先是 Poisson Image Blending 的实现。



首先在 source image 框选多边形区域，而后进行融合，融合效果如上。

Implement [Pix2Pix](#) with [Fully Convolutional Layers](#)。

```

super().__init__()
# Encoder (Convolutional Layers)
self.conv1 = nn.Sequential(
    nn.Conv2d(3, 8, kernel_size=4, stride=2, padding=1), # Input channels: 3, output
    nn.BatchNorm2d(8),
    nn.ReLU(inplace=True)
)
self.conv2 = nn.Sequential(
    nn.Conv2d(8, 16, kernel_size=4, stride=2, padding=1),
    nn.BatchNorm2d(16),
    nn.ReLU(inplace=True)
)
self.conv3 = nn.Sequential(
    nn.Conv2d(16, 32, kernel_size=4, stride=2, padding=1),
    nn.BatchNorm2d(32),
    nn.ReLU(inplace=True)
)

```

```

# Decoder (Deconvolutional Layers)
self.deconv1 = nn.Sequential(
    nn.ConvTranspose2d(32, 16, kernel_size=4, stride=2, padding=1),
    nn.BatchNorm2d(16),
    nn.ReLU(inplace=True)
)
self.deconv2 = nn.Sequential(
    nn.ConvTranspose2d(16, 8, kernel_size=4, stride=2, padding=1),
    nn.BatchNorm2d(8),
    nn.ReLU(inplace=True)
)
self.deconv3 = nn.Sequential(
    nn.ConvTranspose2d(8, 3, kernel_size=4, stride=2, padding=1),
    nn.Tanh() # Assuming output is between -1 and 1
)

```

通过卷积和反卷积构建编码器和解码器，从而搭建一个全卷积网络。