

# Super Resolution Image using GAN

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**Abstract:** *One of the most important vision applications is the reconstruction of high resolution (HR) images from a single low-resolution (LR) image. Despite the fact that several algorithms have been successfully proposed in recent years, efficient and robust image super resolution (ISR) reconstruction remains a challenge due to a number of factors, including the inherent ambiguous mapping between the HR and LR images, the need for exemplar images, and computational load. The single image super resolution algorithm is presented in this research, and it primarily focuses on generating a high quality and high-resolution image from a low resolution, low quality image. It can be used for medical imaging, satellite imaging, surveillance, crime investigation, and video applications, among other things.*

**Keywords:** Super Resolution, Image Reconstruction, Resolution enhancement

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