Image Inpainting Models (Mask-based Object Removal)

LaMa (Resolution-robust Large Mask Inpainting)

State-of-the-art large-mask image inpainting model, mask-based object removal.

https://github.com/advimman/lama

Stable Diffusion (Inpainting mode)

Text-guided or mask-guided inpainting, very flexible, high quality results.

https://github.com/Stability-AI/stablediffusion

DeepFill v2 (Generative Image Inpainting)

Free-form inpainting using gated convolutions, realistic filling.

https://github.com/JiahuiYu/generative_inpainting

MAT (Masked Attention Transformer)

Transformer-based free-form inpainting, strong contextual understanding.

https://github.com/fenglinglwb/MAT

ZITS (Zoom-to-Inpaint)

Progressive zoom-in strategy for handling large missing regions.

https://github.com/DQiaole/ZITS_inpainting

RFR-Inpainting (Recurrent Feature Reasoning)

High-fidelity feature-based image inpainting, recurrent refinement.

https://github.com/uber-research/fast-inpainting

ICT (Iterative Contextual Transformer)

Iteratively refines missing regions, good for complex scenes.

https://github.com/raywzy/ICT

EdgeConnect

Edge-guided inpainting, predicts edges before filling masked regions.

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https://github.com/knazeri/edge-connect

GatedConv (Free-Form Image Inpainting)

Introduced gated convolutions for mask-aware inpainting.

https://github.com/JiahuiYu/generative_inpainting

Paint-by-Example (PBE)

Inpaint using style examples; control over texture and structure.

https://github.com/Fantasy-Studio/Paint-by-Example

MCG (Multimodal Conditional Generation)

Multimodal editing; text, mask, or style-based inpainting.

https://github.com/open-mmlab/mmediting

MCNet (Masked Convolutional Network)

Lightweight and efficient masked image inpainting.

https://github.com/Zhaoyi-Yan/MCNet