

Reimagining ArchViz Through AI

From Legacy Renderings to Modern AI Enhanced Visualization

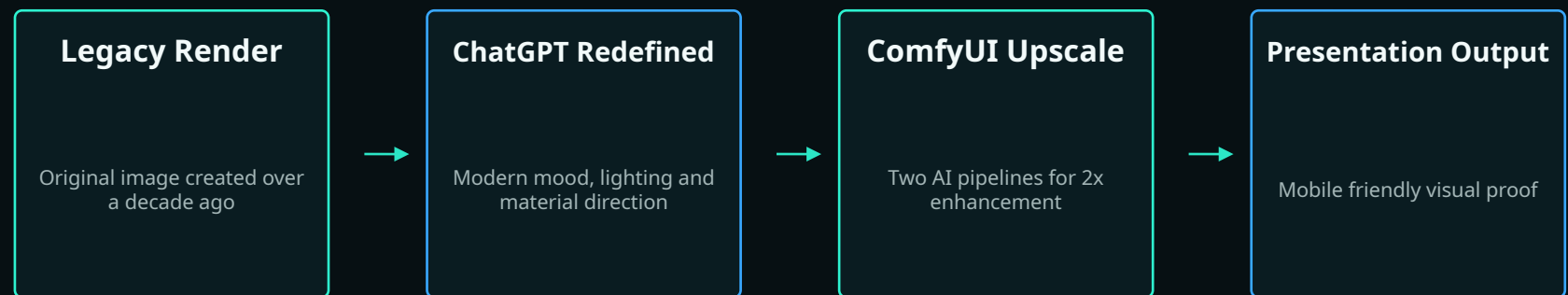
ComfyUI case study

Z-Image Turbo + Flux2.Klein 9B

Roshan Abraham

Project Overview

A visual case study: legacy render to AI-assisted ArchViz pipeline.



Original



AI Base



Z-Image Turbo



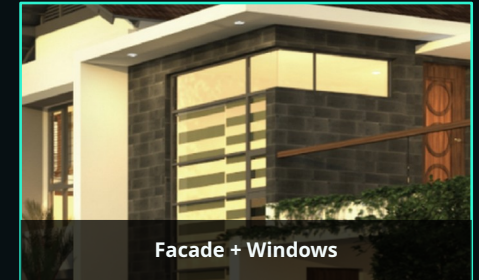
Flux2.Klein 9B

Original Render Showcase

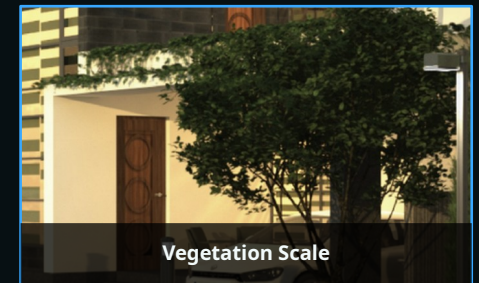
Legacy workflow baseline - strong design, limited modern realism.



Original Render (Legacy Workflow)



Facade + Windows



Vegetation Scale



Pavement Detail

Baseline reveals flat lighting, simplified plants, softer edges and dated material response.

ChatGPT Redefined Version

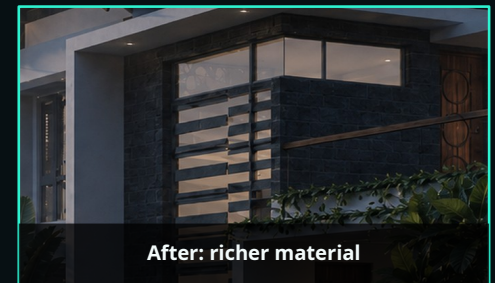
The image becomes cinematic before the upscale stage begins.



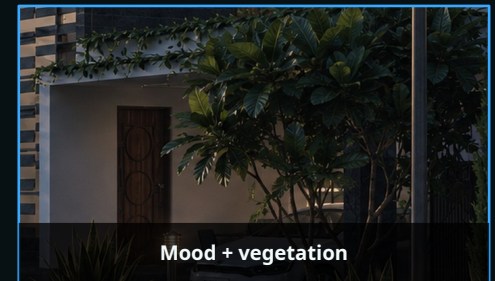
AI Redefined Base Image



Before: flat facade



After: richer material

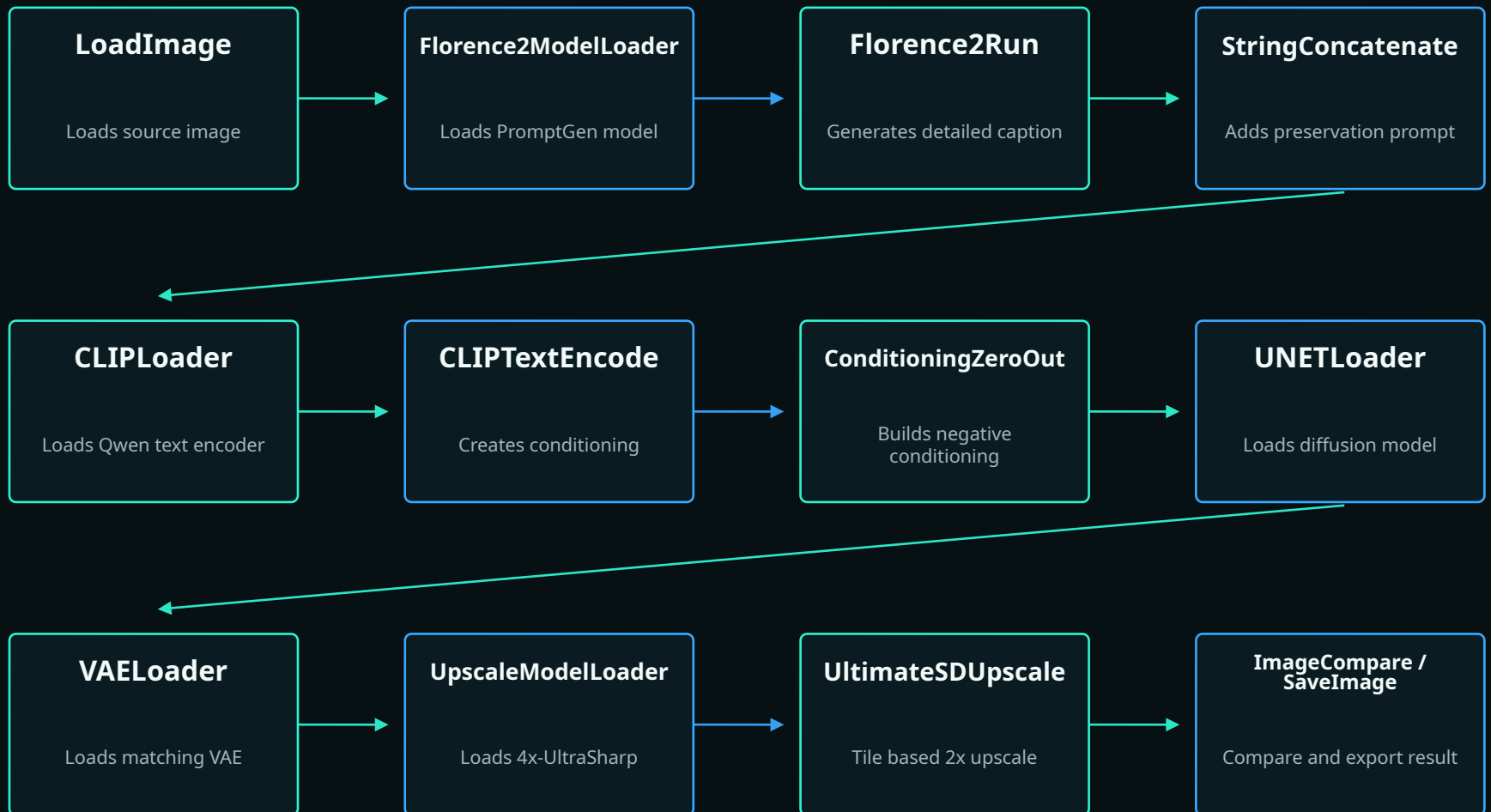


Mood + vegetation

Lighting reinterpretation | material refinement | atmosphere |
stronger realism

Z-Image Turbo Workflow

Actual ComfyUI JSON nodes mapped into a mobile readable graph.



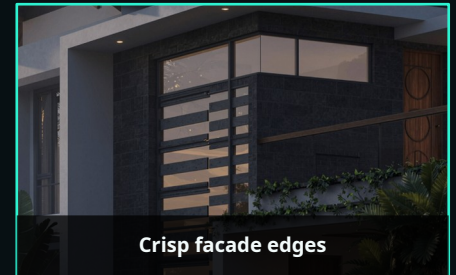
z-image-turbo_fp8_scaled_e5m2_KJ | qwen_3_4b | ae_zimage | 10 steps | 2x | denoise 0.22

Z-Image Turbo Result Analysis

Sharper details with strong preservation of architecture and mood.



Z-Image Turbo 2x Upscale



Crisp facade edges



Vegetation refinement

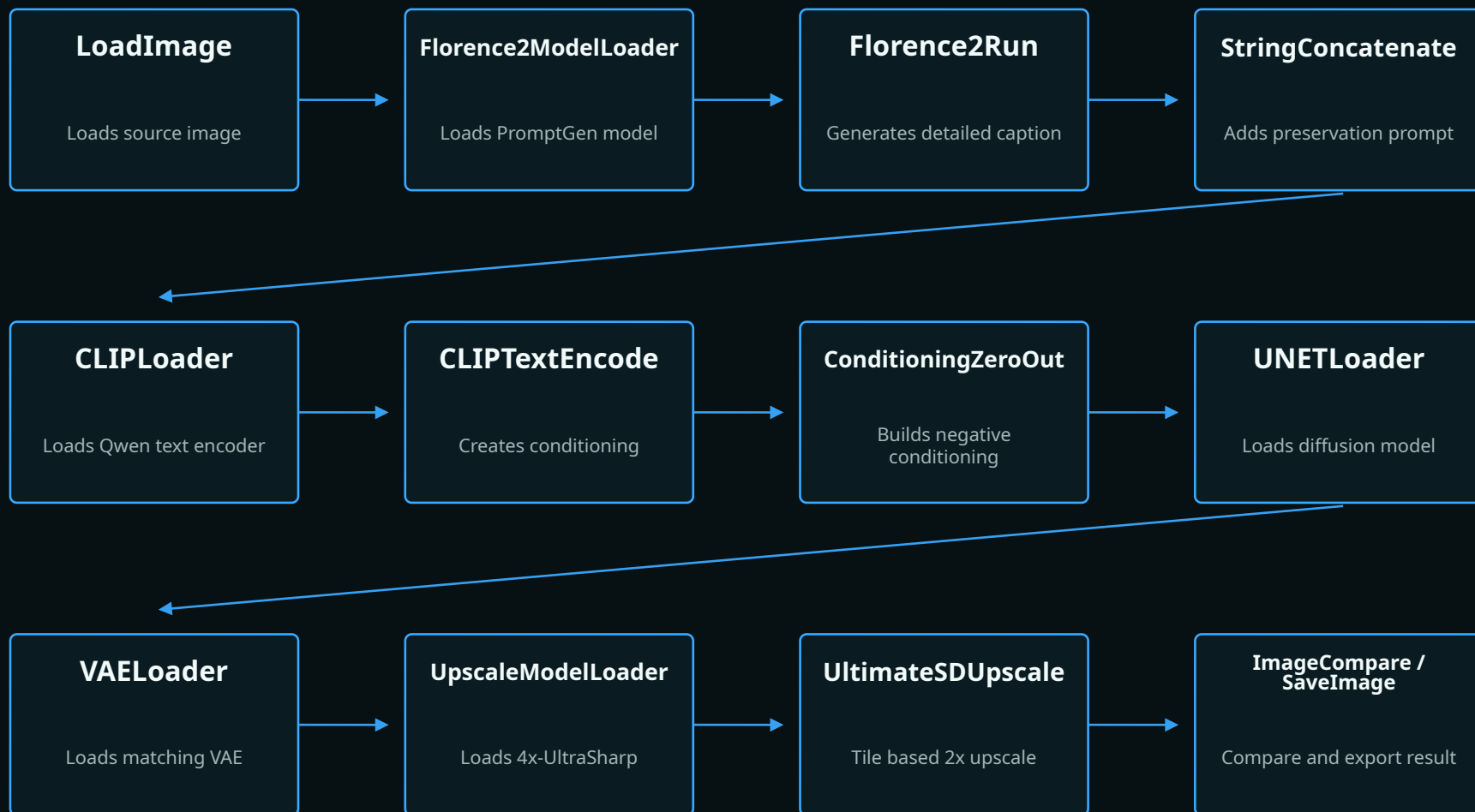


Wet cobblestone detail

Texture sharpness | edge recovery | vegetation realism | material clarity

Flux2.Klein 9B Workflow

Actual ComfyUI JSON nodes mapped into a mobile readable graph.



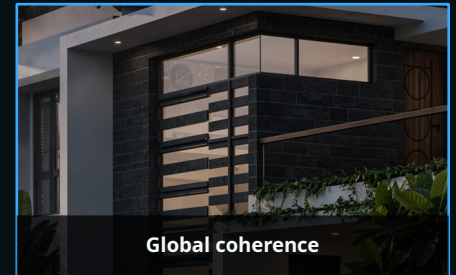
flux-2-klein-9b-fp8 | qwen_3_8b_fp8mixed | flux2-vae | 20 steps | 2x | denoise 0.22

Flux2.Klein 9B Result Analysis

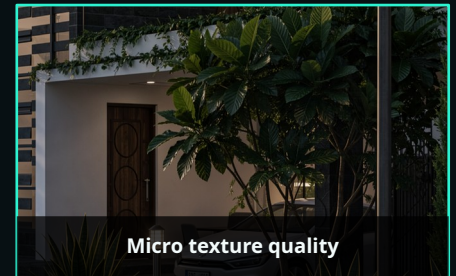
Cinematic coherence and refined global lighting feel.



Flux2.Klein 9B 2x Upscale



Global coherence



Micro texture quality



Upscale consistency

Lighting realism | micro texture | cinematic mood | upscale consistency

Direct Comparison Grid

Same visual region. Four stages. Clear evolution.



Original Render



ChatGPT Redefined



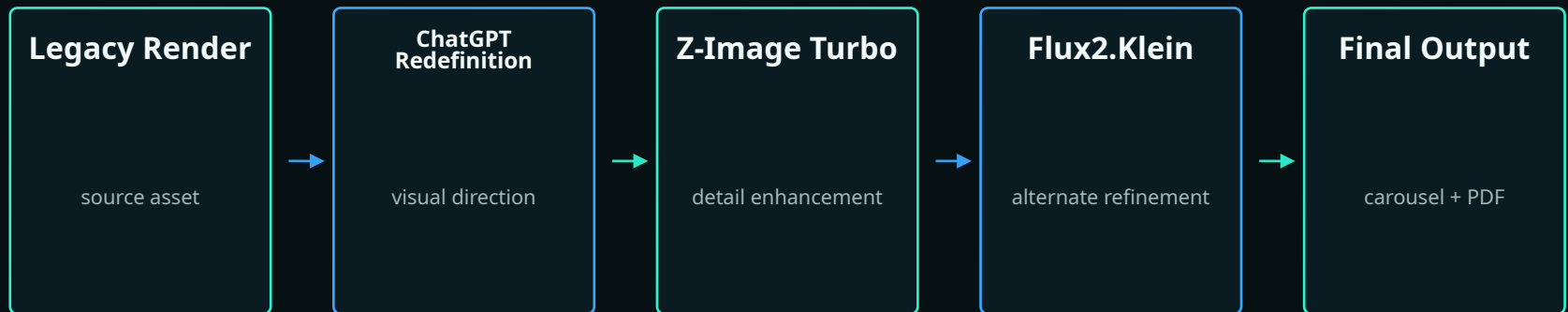
Z-Image Turbo 2x



Flux2.Klein 9B 2x

Workflow Pipeline

From old render to publishable AI-enhanced ArchViz output.



Designed for repeatable production, not one-off experiments.

Technical Insights

The practical value is workflow control.

Modernize legacy assets

Turn older renders into current visual standards

Preserve architecture

Prompt explicitly protects layout, facade and materials

Tile-based detail

2x upscale uses 768px tiles with seam fixing

Production advantage

More usable outputs from existing render libraries

Visual storytelling

Atmosphere and material realism become presentation-ready

Fast iteration

Two ComfyUI branches for comparison and tuning

The Future of Architectural Visualization

Blending Creativity, Experience, and AI

Roshan Abraham

<https://archviz-canvas-magic.lovable.app/>