

A Major Project Report On
Focus+ : From Blurry to Brilliant



(An Autonomous Institution)

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ABSTRACT

Traditional video restoration often prioritizes noise reduction, color correction, or upscaling, neglecting the crucial details that bring characters and emotions to life: facial features. Focus+ introduces a novel system driven by the power of GFPGAN, a deep learning algorithm, to specifically enhance facial features in videos.

Our system meticulously extracts individual frames, applies GFPGAN's transformative brush to each, and seamlessly recombines them into a restored video. This frame-by-frame approach ensures consistent enhancement throughout, avoiding the inconsistencies that plague other methods.

Furthermore, Focus+ leverages MoviePy's video manipulation capabilities to flawlessly integrate the refined frames, eliminating distortions and artifacts. Notably, the original audio track is meticulously preserved and reincorporated, maintaining the video's perfect audio-visual synchronicity.

This unique combination of focused facial enhancement, seamless integration, and audio preservation surpasses existing systems. Focus+ holds immense potential for film restoration, archival preservation, and redefining the future of video content.