Deep Learning-Based De-blurring/Denoising of Indian Heritage Images

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Abstract: *Using the deep learning algorithms, our method comes up with the process that impedes the conservation and restores the Indian heritage images, while dealing with the obstacles like blur, noise, and obscurity of the images. In this case, neural networks that are developed themselves are used to carry out the process of denoising and reconstruction of these images but also contain intricate object detection capabilities. These multi-faceted actions, therefore, help to preserve the historically relevant aspects and make the Indian cultural heritage more colorful and accessible to the outside world.*

In addition, not only are we protecting them but we are also transforming them into the best images that represent India's past. Through application of deep learning principles to indigenous materials, we come up with powerful educational tools that make a deep impact in the community, promoting a profound appreciation for India's cultural heritage. By means of careful experimentation and stringent testing, we establish that the specified methodology is indeed workable in conservation applications as it has been shown to be effective. This way, we make it clear that the cultural heritage of India is not only treasures of the ancient time but the living legacy, which is welcoming for everyone and contributes to the cultural diversity and pride.

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