

VERY DEEP CONVOLUTION NETWORK FOR SUPER RESOLUTION

Deep-Learning Project CS 577

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WHAT IS SUPER RESOLUTION

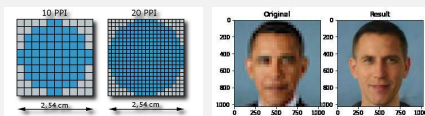
• Before getting into the nitty gritty of super resolutions, let us understand some concepts regarding images.

• What is an image?

• What is resolution?



2



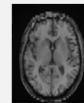
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INTRODUCTION

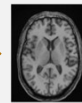
Image Super-Resolution: Low Resolution image to High Resolution image

Usefulness: medical field, security, Biological field.

Existing deep learning technique and its problem: SRCNN -small image regions, slow, single scale



LR image



HR image

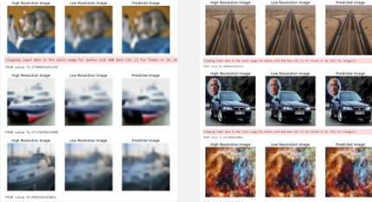
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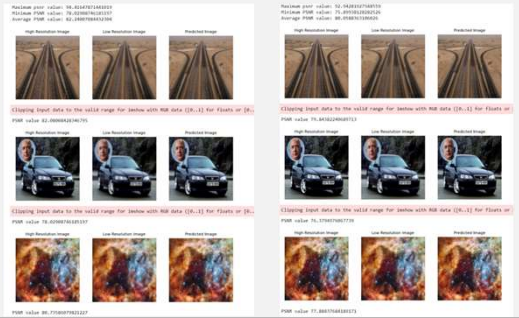
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RESULTS AND DISCUSSION

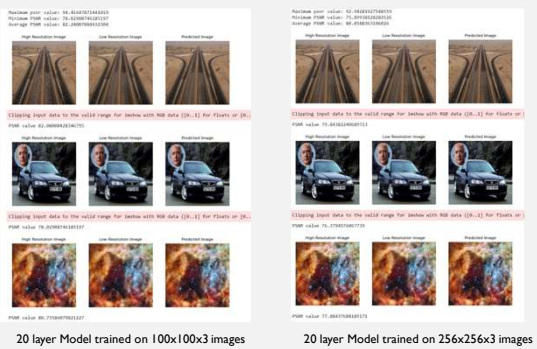


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GUESS THE MODEL?



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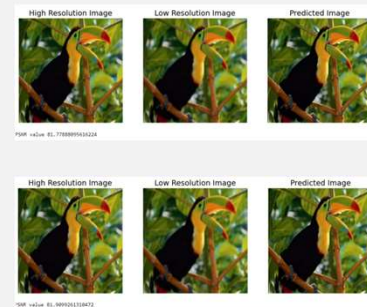


20 layer Model trained on 100x100x3 images



20 layer Model trained on 256x256x3 images

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