

SYMBIOSIS INSTITUTE OF TECHNOLOGY DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

Software Testing and Quality AssuranceLab Assignment - 1

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Test Cases for Super Resolution using deep neural network project. (Super resolution is a technique to transform a low resolution image to high resolution image.)

Input

- 1. The image input file format; should be JPEG
- 2. The size of input file; should be <10MB
- 3. The size of the image; 32X32
- 4. The colour map of the image; should be grayscale image
- 5. If the file path is valid or not; should be valid
- 6. If the file is accessible; read access

Processing

- 7. If file can be displayed; should be compatible with the display device
- 8. If the image fits into display frame; should be perfect fit
- 9. If the featured extracted information; should not have missing values

Model Training

- 10. Kernel's life; should be running with proper allocated memory
- 11. Kernel's booted with the proper model specification; should have all the features weights and biases assigned successfully
- 12. If all dependencies are satisfied; should be pre-allocated
- 13. If model produces intended application output; should be high resolution 64X64
- 14. If data is distributed evenly; should be stratified
- 15. If the discriminator is able to discriminate or not; should be able to

Model Testing and Output

- 16. If the output image is able to store in the system; should have enough memory
- 17. If the output image is having missing pixel values or not; it should not
- 18. If the output image is successfully converted to grayscale image or not; it should
- 19. If the output image fits in the display frame; should be perfect fit
- 20. If the comparison between the input and output is significant; should be enlarged with no blurry edges.