Weekly Report: Digital Image Watermarking and Extraction

Project Number: 20

1 Introduction

This week, we discussed the feedback given by the professor on our mid-sem presentation and discerned the areas of improvement.

2 Implementation

We first read about watermark extraction and how it works. We used DFT to embed a watermark in the image so we can also extract the watermark by performing DFT. And then, we also had to check if the extracted watermark survived attacks. So, we implemented that and realized that the extracted watermark was not exact but very near to the original watermark that was embedded in the image before attacking the image with the transformations.

3 Conclusion

Work done this week:
- Learned about watermark extraction
- Implemented transformations on the watermarked image
- Compared the results of simple extraction and after-attack extraction

Work to be done in the next week:
- Work more on image attacking to improvise the results