

CS215 Assignment2 Problem 5

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1 Reconstruction Algorithm

We must have a list of 84 vectors and the 84 compressed values.
Now simply multiply each value with corresponding vector and add them all to get answer.
Convert the answer to 28×28 matrix to get the image.

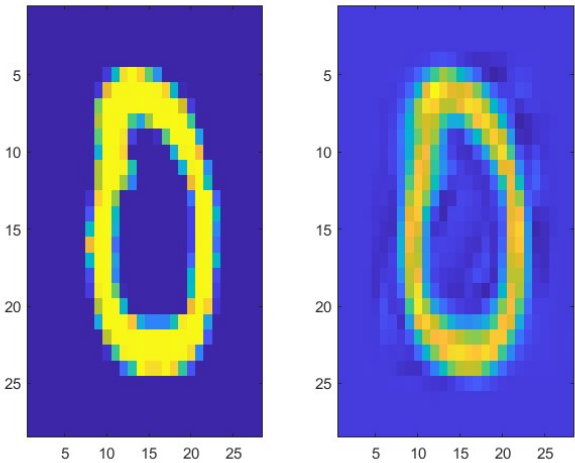


Figure 1: Zero

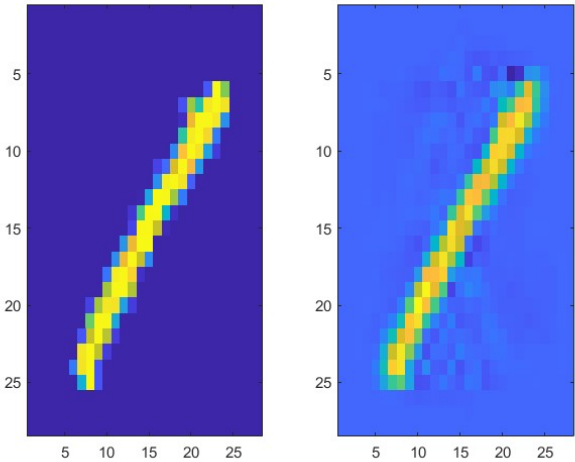


Figure 2: One

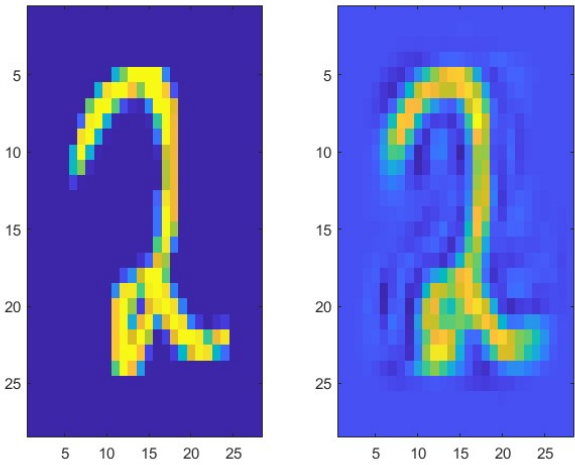


Figure 3: Two

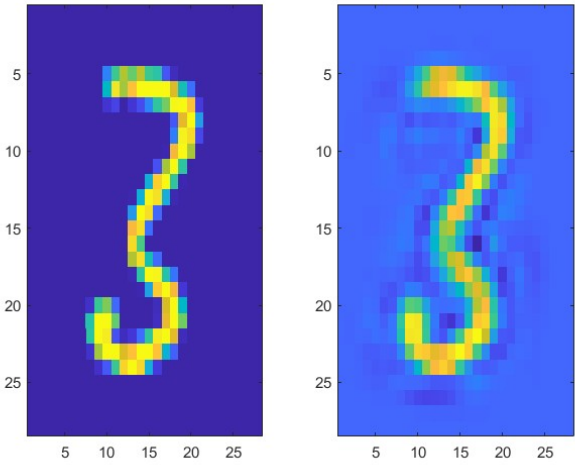


Figure 4: Three

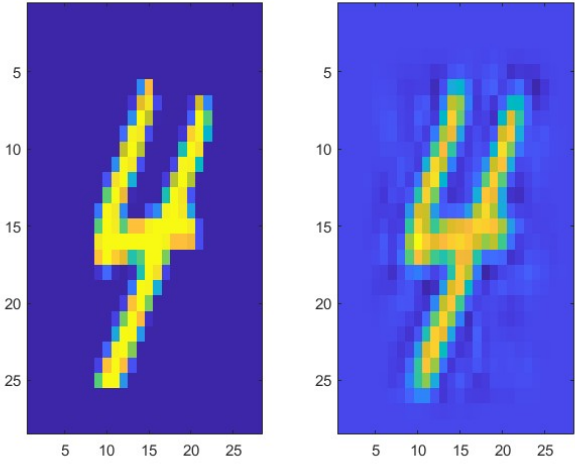


Figure 5: Four

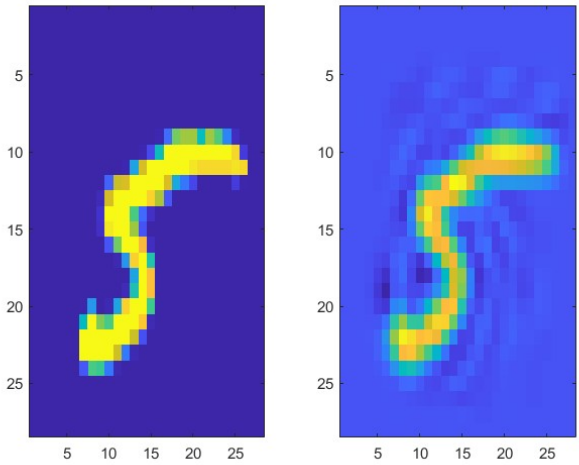


Figure 6: Five

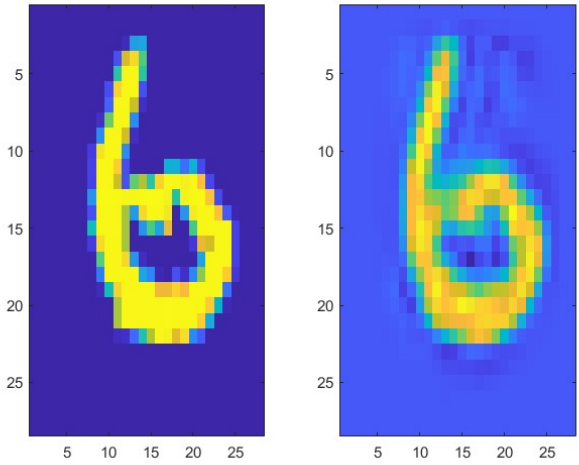


Figure 7: Six

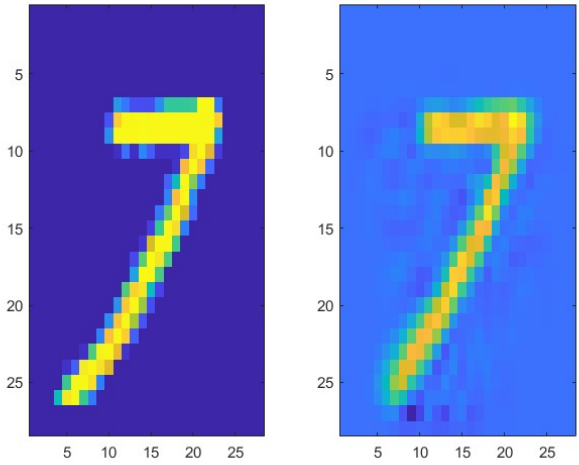


Figure 8: Seven

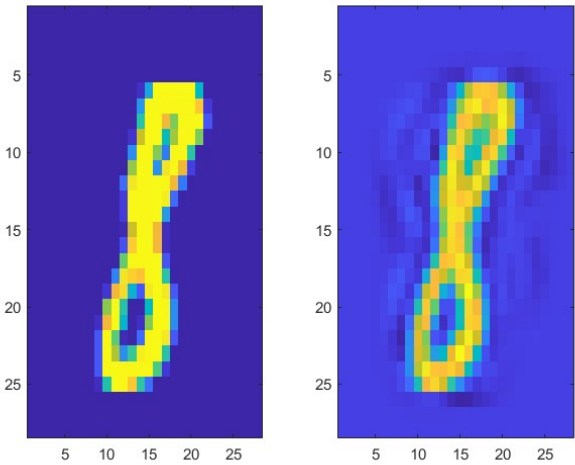


Figure 9: Eight

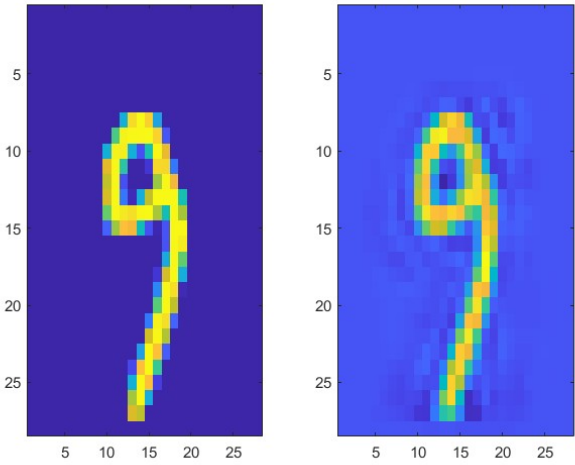


Figure 10: Nine