Review for Deep Learning Project 1 - Group 10

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October 2019

1 Summary of the Report

This report includes wavelet scattering on MNIST and transfer learning by VGG19 on Raphael's dataset. Visualization has been proposed on extracted features from -pre-trained CNN and logistic regression performed on both sets of features. (However, the report seems not completed with no introduction/abstract, discussion, conclusion and references.)

2 Strengths of the Report

- The project researches on both two suggested datasets, and unsupervised learning methods have used;

- Features illustration is great to look at by coloring different category in different colors, with clearly stated labels for MNIST data;

3 Weaknesses of the Report

- The report seems not completed with no introduction/abstract, discussion, conclusion and references

- Unsupervised Learning results of Raphael's paintings can also been visualized after unsupervised learning;

- The report is not well-organized, and the experiment results are hard to find.

4 Clarity and Quality of Writing(1-5): 3

The report is clearly written, and there are figures to illustrate the unsupervised learning results. Formatting and structure are great. Here are some suggestions:

- References should be appropriately included.

- The report can be more organized or there are some interactions between two sections.

5 Technical Quality(1-5):3

There seems no flaws in reasoning and claims are supported by experiment results. Here are some suggestions:

- The techniques used in this report should be sound and well-explained before use.

- The results could be more convincing if there is comparison between several unsupervised/supervised learning methods.

- The results should be discussed with examples.

6 Overall Rating(1-5):3

7 Confidence on the assessment(1-3):2