

October 19, 2019

## 1 Summary of the report

The report uses Scattering Net, pre-trained VGG19 and ResNet50 to conduct feature extraction of the MNIST data. After that, it performs image classification with logistic regression, random forest, LDA, and SVM based on respective features. Besides, it employs two different models to identify the Raphael's paintings from the forgeries.

## 2 The strengths of the report

- use two different datasets
- brief introduction of each method, including Scattering Net, VGG 19 and ResNet.
- uses different supervised learning methods such as logistic regression, random forest, LDA, and SVM.

## 3 The weaknesses of the report

- just a brief introduction of the MNIST dataset and the Raphael's paintings dataset, no displayed samples.

## 4 Evaluation on Clarity and quality of writing

- Rating: 5
- Comments: The report is clearly written, with a good use of examples and figures. It doesn't have problems with style and grammar. There aren't issues with typos, formatting, reference, etc.

## 5 Evaluation on Technical Quality

- Rating: 5
- Comments: The results sound technical. The claims are well-supported by experimental results. It is possible for the other researchers to replicate these results.

## 6 Overall rating

- 5

## 7 Confidence on assessment

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