Comment 9

In paper 9, the author did research on MNIST dataset and the Raphael’s paintings. They conducted feature extraction on MNIST data using different neural networks, such as Scattering Net, pre-trained VGG19 and ResNet50. Afterwards, they perform image classification with logistic regression, random forest, LDA, and SVM based on respective features. The author also compares the performance of the classifier after feature extraction with the performance of the classifier based on the raw data. The best performance is 0.9910 generated by LDA+ Scattering Net.

In addition, the author employed Scattering Net combined with SNN and CNN with similar structure with Scattering Net to identify the Raphael’s paintings from the forgeries and compare their accuracies. The validation accuracies reached over 80%. Eventually the author provided predictions of seven disputed pictures.

Strength: The strength of this paper is that it proposed multiple algorithms, and make comparisons with raw data.

Weakness: The weakness of this paper is that the report contains too much content.

Evaluation on quality of writing: 4. The writing is clear and there is no obvious mistake. Pictures and charts are used in this paper.

Evaluation on presentation: 4. The paper is well organized and clear.

Evaluation on creativity: 3.

Confidence on your assessment: 2.