* **Summary of the report.**

This report chooses Mnist as dataset and do feature extraction using CNNs including Alexnet VGG19 and ResNet-18, also they compared with Scattering net. Finally, they use t-sne and PCA to visualize the features and do image classification with many traditional classifiers. They also give some analysis to the results, including comparison classifiers and dimension reduction methods.

* **Describe the strengths of the report.**

They have achieved decent results with cross-validation. The visualization is also good to support that the feature extraction is effective.

* **Describe the weaknesses of the report.**

If they can have more deeper discussion that could be great and distinguish them from others.

* **Evaluation on Clarity and quality of writing (1-5)**:

2

This report sometimes has some typo, which could be confusing.

For example, in image classification part, they say they use some “traditional unsupervised learning methods”, but they actually refer to Logistic Regression and SVM etc.

* **Evaluation on Technical Quality (1-5)**:

3

* **Overall rating**:

3- An average one

* **Confidence on your assessment**

3- I have carefully read the paper and checked the results