

Summary: Group 11 have used scattering network, VGG 16 and Resnet-18 to extract the features on MNIST dataset and then visualized the extracted features using PCA, t-SNE and various methods. Image classification is done by traditional supervised learning method like SVM, RF and so on.

Strengths: Clear structure and analysis of experimental results. Six algorithms have been tried for dimension reduction.

Weaknesses: The title of 3.3 should be “Feature Visualization (Resnet)” instead of “Feature Visualization (VGG19)”. Another question is that there is no dimensionality reduction or classification of raw data MNIST. How can we know whether our feature extraction is effective?

Clarity and equality of writing: Report gets written clearly except for some minor mistakes like grammar ones in the sentence from introduction part--“Then Visualized the extracted features using PCA, t-SNE and various method.”

Technical quality: Group 11 have completed the project as required with trying on many more visualization methods.

Overall rating: 4

Confidence on assessment: 3