

Project 1 Review on Group 12

Summary of report

This group performed Scattering Net feature extraction on MNIST dataset, and used traditional methods including LDA, SVM, Random Forest to make predictions. They also used VGG19 and ResNet to perform the classification. In the comparison result, the traditional methods with Scattering Net extraction achieved a similar result compared to the deep learning methods.

Strengths of report

The feature extraction section part of the report is very well written, with example plot showing how wavelets transform works in on a sample image.

Weaknesses of report

The accuracy part is a bit unclear. in the report, only in the VGG19 section, it is explicitly mentioned as “test accuracy”, but in other places it is mentioned as “accuracy”. This inconsistency is a bit confusing in interpreting the result.

Clarity and quality of writing

4. This is nicely written report with clear organization.

Technical Quality

4. The report have sound result and good exploration on the result.

Overall rating

4. A good report.