**KunduDas: Performance Improvement of FNN based Image Classification using PCA**

Summary of the report:

This report aimed to use PCA for dimensionality reduction to improve an FNN based image classification model. Performance improvement in terms of accuracy and inference time was observed in the FNN-PCA when compared to the vanilla FNN.

Describe the strengths of the report:

The goal of the work is clear, and the methodology is straightforward.

Describe the weaknesses of the report:

Some minor grammatical errors and technical clarifications needed.

Evaluation on clarity and quality of writing: 4

The report is generally well written- and easy to follow.

Introduction: …on MNIST to “reduce” the dimension…

FNN Architecture: The FNN “was” trained by minimizing…

Results and Analysis: …784-“dimensional” data.

Methods will read better if written in past tense i.e. We used an FNN with 2 hidden layers…

Evaluation on technical quality: 4

There are some unanswered questions that can benefit the flow of the report if addressed. Why was this specific architecture chosen? Will the same results hold true for a different classifier/architecture (e.g. random forest, SVM, more layers etc.)? A check for overfitting will also help support the results.

Overall rating: 4

Confidence on your assessment: 3