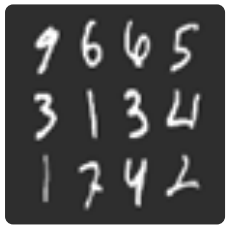
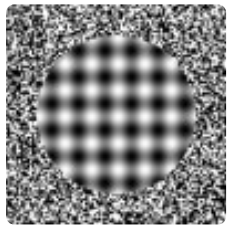

Interactive Intro to Dimensionality Redu...

by Anisotropic · last run 21 days ago · Python notebook · 3863 views
using data from Digit Recognizer · Public

Notebook

CAVEAT: Sorry but just note this notebook can be a bit slow to load probably due to the Plotly embeddings displaying a large number of points

Introduction

There already exists a plethora of notebooks discussing the merits of dimensionality reduction methods, in particular the Big 3 of PCA (Principal Component Analysis), LDA (Linear Discriminant Analysis) and TSNE (T-Distributed Stochastic Neighbour Embedding). Quite a handful of these have compared one to the other but few have gathered all 3 in one go. Therefore this notebook will aim to provide an introductory exposition on these 3 methods as well as to portray their visualisations interactively and hopefully more intuitively via the Plotly visualisation library. The chapters are structured is as follows: