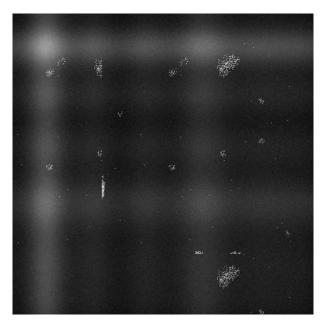
Topics on High Dimensional Data Analytics Final Exam

Q4: Part 1 and 2

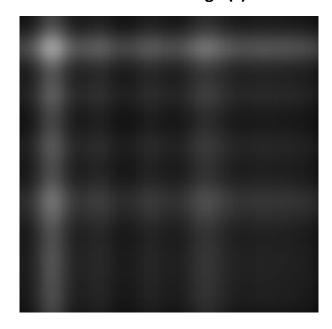
Ian Dover

Part 1:

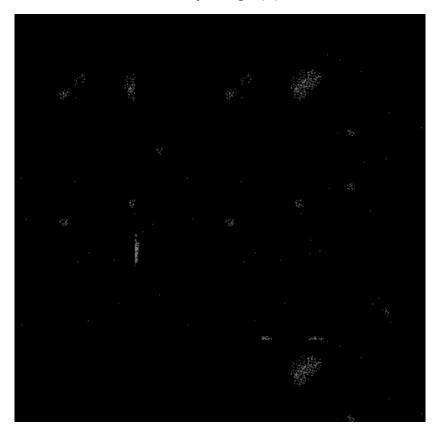
Original Image (M)



Smoothed Image (L)

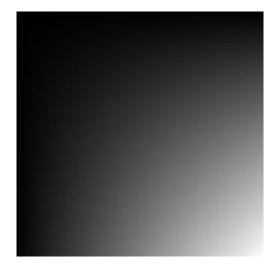


Noisy Image (S)

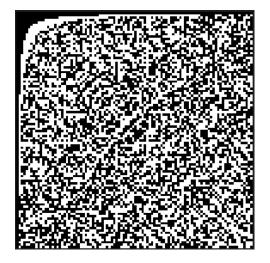


Part 2.1:

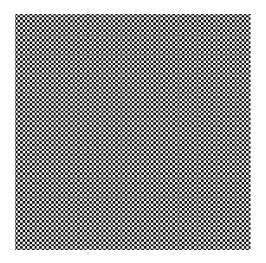
Linear Kernel



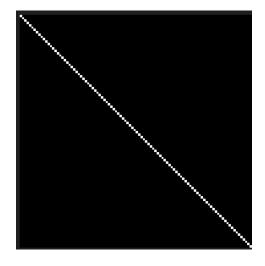
Polynomial Kernel



Periodic Kernel



Gaussian Kernel



Part 2.2:

The RMSE on the test set for the polynomial kernel is: 0.215313

The RMSE on the test set for the polynomial kernel is: 0.068106

The RMSE on the test set for the periodic kernel is: 0.406997

The RMSE on the test set for the gaussian kernel is: 0.074666

