2 Low-Rank Approximation

Low-rank approximation tries to find an approximation to a given matrix, where the approximation matrix has a lower rank compared to the original matrix. This is useful for mathematical modeling and data compression. Mathematically, given a matrix M, we try to find \hat{M} in the following optimization problem,

$$\underset{\hat{M}}{\operatorname{argmin}} \|M - \hat{M}\|_{F} \quad \text{subject to} \quad \operatorname{rank}(\hat{M}) \leq k$$
 (1)

where $||A||_F = \sqrt{\sum_i \sum_j a_{ij}^2}$ is the Frobenius norm, i.e., the sum of squares of all entries in the matrix, followed by a square root.

This problem can be solved using Singular Value Decomposition (SVD). Specifically, let $M = U\Sigma V^{T}$, where $\Sigma = \text{diag}(\sigma_{1}, ..., \sigma_{n})$. Then a rank-k approximation of M can be written as $\hat{M} = U\hat{\Sigma}V^{T}$, where $\hat{\Sigma} = \text{diag}(\sigma_{1}, ..., \sigma_{k}, 0, ..., 0)$. In this problem, we aim to perform this approximation method on gray-scale images, which can be thought of as a 2D matrix.

- (a) Using the image low-rank_data/face.jpg, perform a rank-5, rank-20, and rank-100 approximation on the image. Show both the original image as well as the low-rank images you obtain in your report.
- (b) Now perform the same rank-5, rank-20, and rank-100 approximation on low-rank_data/sky.jpg. Show both the original image as well as the low-rank images you obtain in your report.
- (c) In one plot, plot the Mean Squared Error (MSE) between the rank-k approximation and the original image for both low-rank_data/face.jpg and low-rank_data/sky.jpg, for k ranging from 1 to 100. Be sure to label each curve in the plot. The MSE between two images I, J ∈ R^{w×h} is

$$MSE(I, J) = \sum_{i,j} (I_{i,j} - J_{i,j})^{2}.$$
 (2)

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