

## 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,

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

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  $\Sigma = \operatorname{diag}(\sigma_1, \dots, \sigma_n)$ . Then a rank- $k$  approximation of  $M$  can be written as  $\hat{M} = U\hat{\Sigma}V^T$ , where  $\hat{\Sigma} = \operatorname{diag}(\sigma_1, \dots, \sigma_k, 0, \dots, 0)$ . 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  $I, J \in \mathbb{R}^{m \times n}$  is

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

# Low Rank Approximation Low Rank Approximation

**Wolfgang Guggemos**



**Low Rank Approximation Low Rank Approximation:**

## **Low Rank Approximation Low Rank Approximation** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Low Rank Approximation Low Rank Approximation**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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