

## 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

**JA Banks**



**Low Rank Approximation Low Rank Approximation:**

## Decoding **Low Rank Approximation Low Rank Approximation**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Low Rank Approximation Low Rank Approximation**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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