

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

**Thierry Bouwmans, Necdet Serhat
Aybat, El-hadi Zahzah**



Low Rank Approximation Low Rank Approximation:

The Enigmatic Realm of **Low Rank Approximation Low Rank Approximation**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Low Rank Approximation Low Rank Approximation** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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