

A diagram illustrating a matrix approximation. On the left is a light blue square labeled \mathbf{R} . To its right is an approximation symbol \approx . Next is a teal vertical rectangle labeled \mathbf{U} with the dimension k written below it. To the right of \mathbf{U} is a multiplication symbol \times . This is followed by a brown horizontal rectangle labeled \mathbf{V}^T with the dimension k written to its right. The rectangles are outlined in black.

$$\mathbf{R} \approx \mathbf{U} \times \mathbf{V}^T$$

k

k