

# Indian Institute of Technology, Bombay

Offers  
Winter School December, 2021  
On  
"SVD: The Philosopher's Stone in Data Science"



## Prof. Debasattam Pal

Debasattam Pal joined IIT, Guwahati as a Professor after obtaining his PhD. From IIT Bombay in 2012. Currently he is a Professor in the Department of Electrical Engineering of Indian Institute of Technology, Bombay. He is the recipient of IIT Bombay's Departmental award for Excellence in Teaching.

## Learning Objectives

Getting acquainted with the fascinating too called SVD ( Singular Value Decomposition) and witness through examples from data science, the power of this tool.

## Who Should Attend

Under graduate second year students onwards and anyone who is having an introductory knowledge of linear algebra and matrix theory.

## Duration of the Course

Total Duration of the Course is Eight to Nine Hours.

## About IIT Bombay

Established in 1958, IIT Bombay is recognized worldwide as a leader in the field of engineering education and research. Research and academic programmes in IIT Bombay are driven by an outstanding faculty, many of whom are reputed for their research contributions internationally.

## About the Course

What is SVD? How to obtain SVD? Various properties of SVD. The best low-rank approximation of a matrix using SVD. Applications: (i) data compression, (ii) model order reduction of dynamical systems, (iii) building recommendation systems, (iv) dimensionality reduction: principal component analysis (PCA).

## Contact Information

For more Information  
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