

# MA635P-Scientific Programming Laboratory

Krylov Subspace: SV Decomposition Method and Latent Semantic Analysis

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April 2025





# Team

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- MA23M014 SHEFALI
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# Work

# Latent Semantic Analysis

1. Understand this paper large-scale latent semantic analysis [Reference](#) and [Latent Semantic Indexing](#)



# SV Decomposition

1. Generate an algorithm to compute SV decomposition
2. Understand how to use SVD for latent semantic analysis



# Tasks

1. Use python program to develop SVD and apply it to five different latent semantic analysis problem.



# Deliverable

1. Python notebook (Google colab)
2. Report, Latex Presentation and video presentation, each one has to explain 3 minutes about their contribution and how did you develop the code, data etc.



# Thanks

**Doubts and Suggestions**

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