

MACHINE LEARNING SESSION 5

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Feb 05, 2021



AGENDA FOR THE SESSIONS

Session	Date	Agenda
1	Jan 8, 2021	Introduction to ML
2	Jan 15, 2021	Supervised Learning - 1
3	Jan 22, 2021	Supervised Learning - 2
4	Jan 29, 2021	Unsupervised Learning - 1
5	Feb 05, 2021	Unsupervised Learning - 2

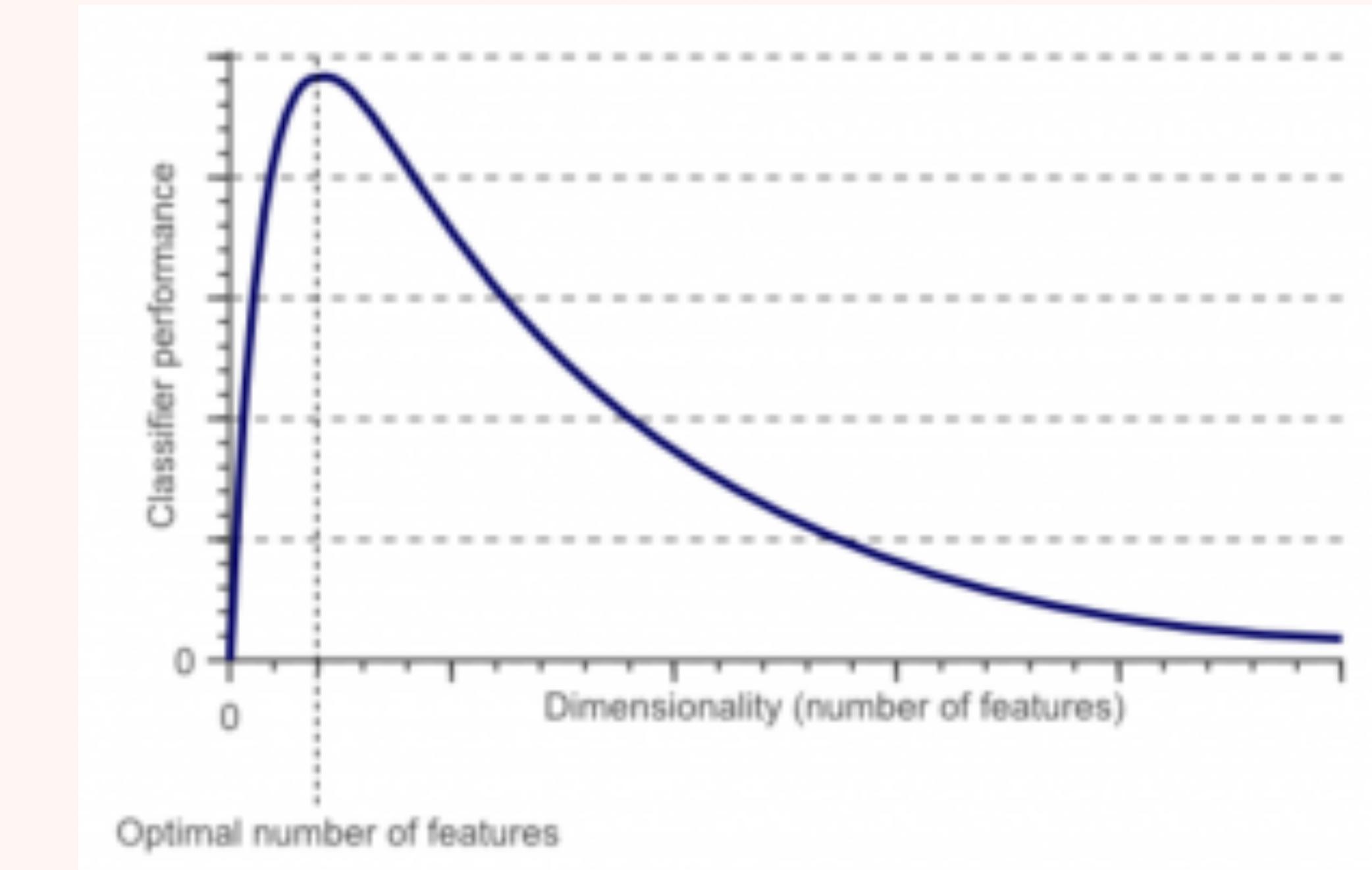
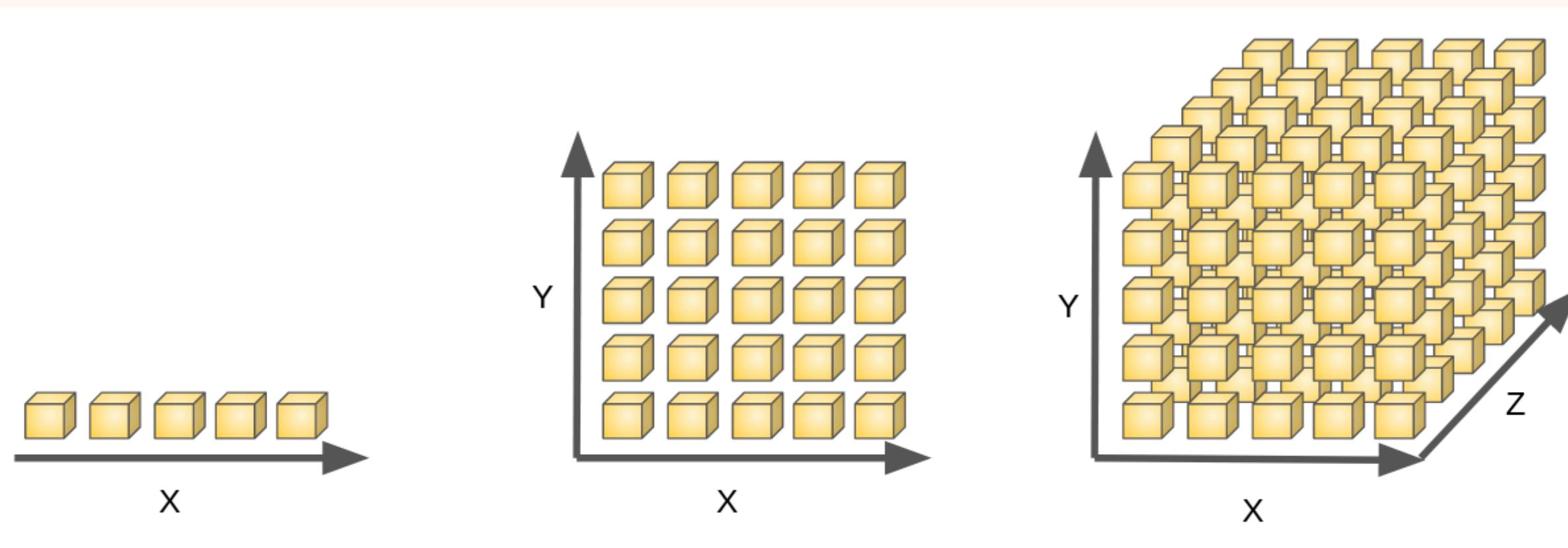


QUESTIONS WE WILL DISCUSS TODAY

- Curse of Dimensionality
- Dimensionality reduction techniques
- Principal Component Analysis
- Singular Value Decomposition
- Python Implementations



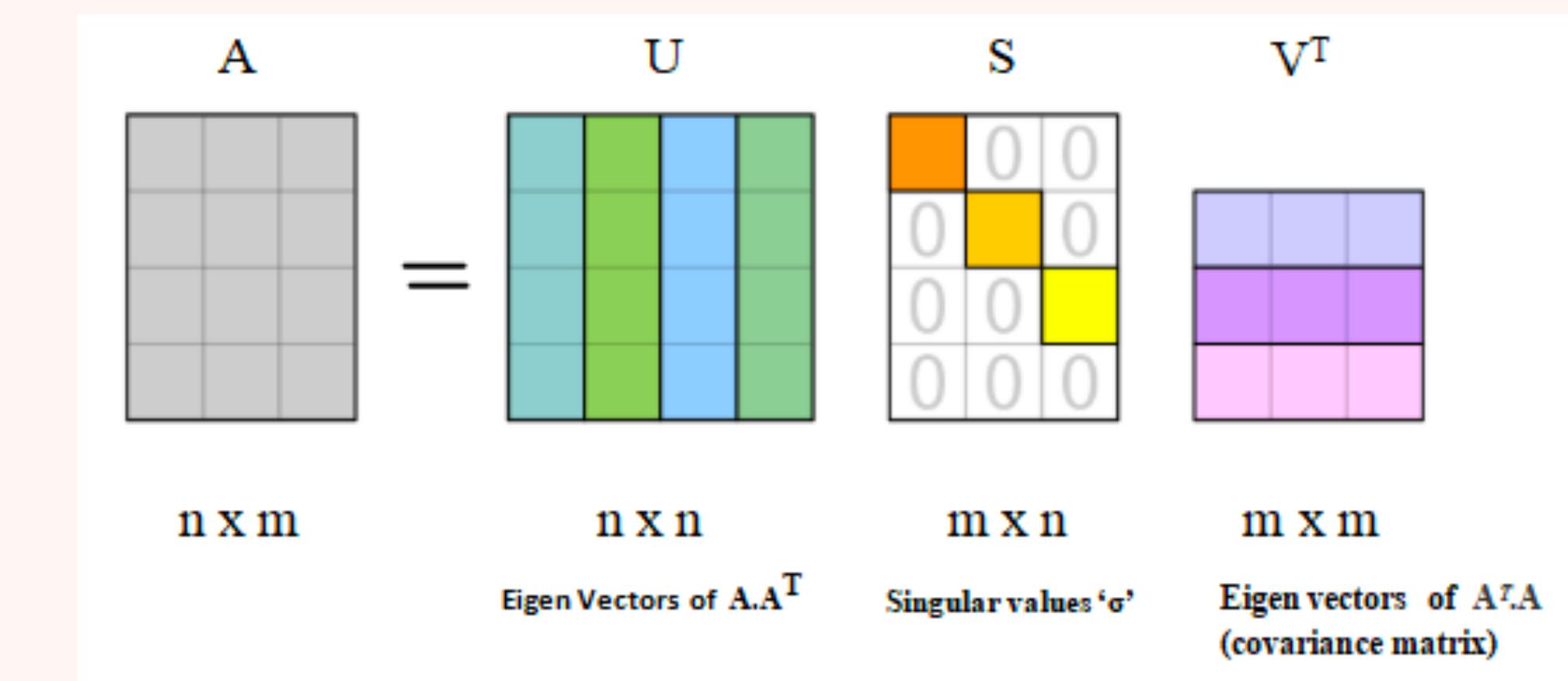
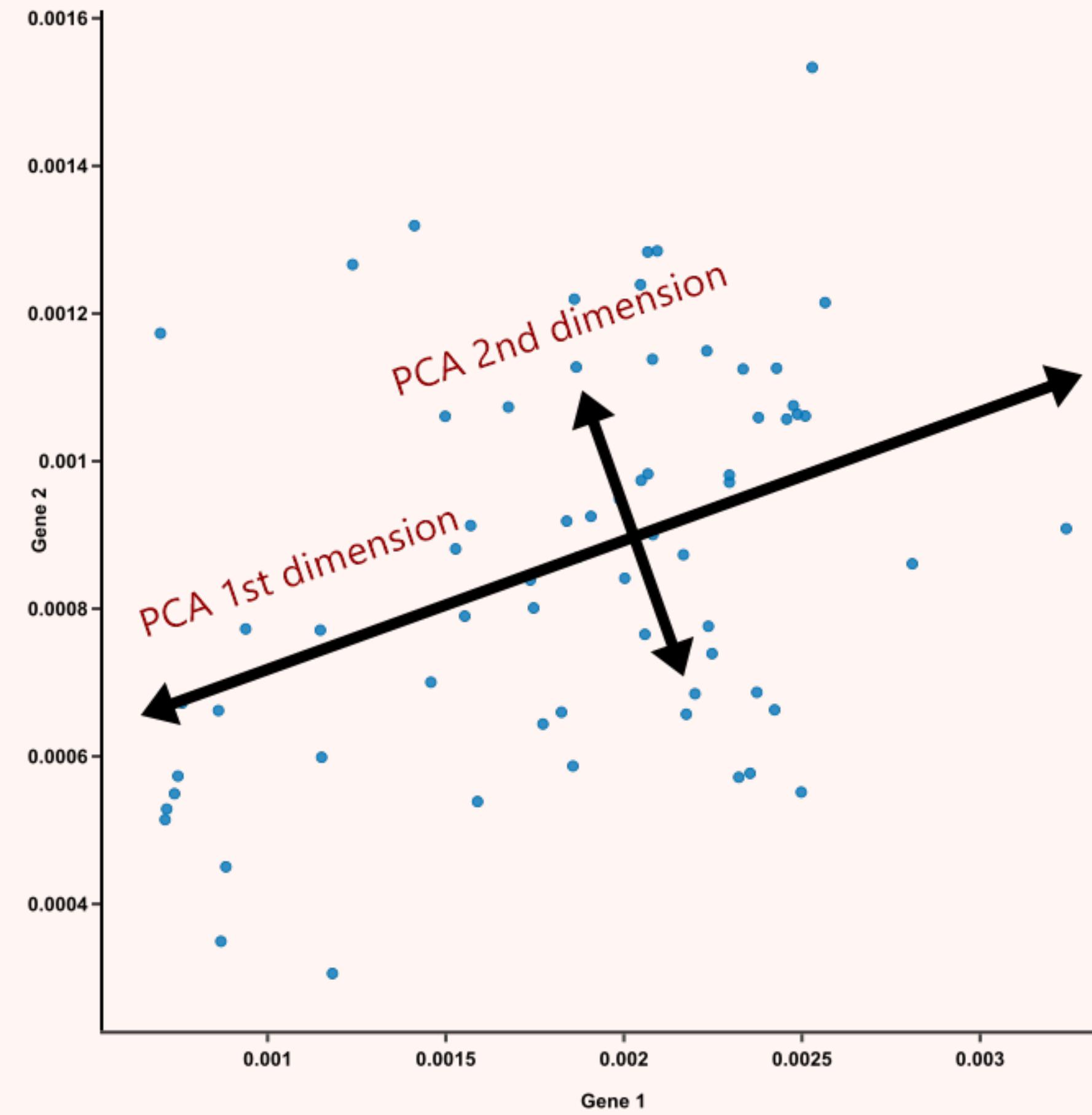
Curse of Dimensionality impacts our models a lot



There are quite a few dimensionality reduction methods

- PCA (Principal Component Analysis) and SVD
 - NMF (Non-negative matrix factorisation)
 - Linear Discriminant Analysis (LDA)
 - Generalized Discriminant Analysis (GDA)
 - Autoencoders
 - t-SNE
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These two solutions are perhaps the most widely used



Time to hit the code!

QUESTIONS PLEASE



THANKS!

