

# Digital Talent Scholarship 2022

## Math For Machine Learning - PCA

Lead a sprint through the Machine Learning Track

# Agenda

- Orthogonal

# Are your students ML-ready?

# Recap

# Intro to Projection

[Introduction to projections | Matrix transformations | Linear Algebra | Khan Academy - YouTube](#)

# Projection in 1D Subspace

[Projections onto subspaces | Linear Algebra | Khan Academy](#)  
[- YouTube](#)

### 3.1.3 - Example: projection onto 1D subspaces - [PCA by Imperial College London] - YouTube

## [Introduction to the Course - YouTube](#)



## Projections (video 3): Example 1D Projection - YouTube

## Projections (video 4): N-dimensional projections - YouTube

A projection onto a subspace is a  
linear transformation | Linear Algebra |  
Khan Academy - YouTube

[Subspace projection matrix example |](#)  
[Linear Algebra | Khan Academy -](#)  
[YouTube](#)



# Demo

Orthogonal

# Q & A

# Thank You