edX

1. Eigenvalues, eigenvectors, and diagonalization

Objectives

- Find the **characteristic polynomial** of an $n \times n$ matrix.

- Find the **eigenvalues** of an $n \times n$ matrix and for each eigenvalue the **eigenvectors /eigenspace** .

- **Diagonalize** a **complete** (**not deficient**) $n \times n$ matrix.

- Know the relationship between eigenvalues and the **trace and determinant** of an $n \times n$ matrix.

- Understand how to apply the theory of eigenvectors and eigenvalues to the **pagerank** algorithm used by Google and other search engines.

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