



3 Courses

**Linear Algebra: Linear
Systems and Matrix
Equations**

**Linear Algebra: Matrix
Algebra, Determinants, &
Eigenvectors**

**Linear Algebra:
Orthogonality and
Diagonalization**



May 15, 2024

SANDIPAN DEY

has successfully completed the online, non-credit Specialization

Linear Algebra from Elementary to Advanced

In this Linear Algebra Specialization, learners developed and honed essential skills to analyze systems of linear functions, linear transformations and their matrix representations, and the theory of eigenvalues and eigenvectors to diagonalize matrices. The specialization also focused on using the language of linear algebra in examples, applications, and theorems. Students were introduced to the notion of proofs in this specialization to help with logical reasoning skills. Students completed projects that focused on applications to mathematical modelling. This included Markov Chains and Google PageRank Algorithm.

Joseph Cutrone, PhD,
MBA

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

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