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Until the 19th century, linear algebra was introduced through systems of linear equations and matrices. In modern mathematics, the presentation through vector spaces is

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In linear algebra, the rank of a matrix is the dimension of the vector space generated (or spanned) by its columns. This corresponds to the maximal number of linearly independent columns of  $A$ . This, in turn, is identical to the dimension of the vector space spanned by its rows. Rank is thus a measure of the "nondegenerateness" of the system of linear equations and linear transformation encoded by  $A$ .

Linear Algebra for Machine Learning  
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Rank (linear algebra) - Wikipedia  
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Linear algebra - Wikipedia

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Chapter 1 What is Linear Algebra? 1.1 Introduction This book  
aims to bridge the gap between the mainly computation-  
oriented lower division undergraduate classes and the  
abstract mathematics encountered in more advanced mathe-

Linear Algebra As an Introduction to Abstract Mathematics

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Introduction to Linear Algebra, 5th Edition by Gilbert Strang  
Wellesley - Cambridge Press, 2016, ISBN  
978-0-9802327-7-6, x+574 pages. Reviewed by Douglas  
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Algebra is a foundation field. By this I mean that the notation and formalisms are used by other branches of mathematics to express concepts that are also relevant to machine learning.

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Linear algebra is pervasive in just about all modern scientific subjects, including physics, mathematics, computer science, electrical engineering, economics, and aeronautical engineering.

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