

"Math for ML and DS" Specialization

Andrii X

1 Linear Algebra for Machine Learning and Data Science

1.0.1 System of linear equations:

- Systems of equations: **Non-singular** (complete), **Singular** (Redundant, Contradictory).
- Determinant of a matrix is the signed factor by which areas are scaled by this matrix.
For $A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$ determinant is $\det(A) = ad - bc$.
For non-singular system determinant has non-zero value.