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set in abstract settings.

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volatility and risks, are essential. Strengths of this fully-revised edition include major additions to the R code and the advanced topics covered. Individual chapters cover, among other

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Topics, multivariate

distributions, copulas,

Bayesian computations, risk
management, and

cointegration. Suggested

prerequisites are basic

knowledge of statistics and

probability, matrices and

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calculus. There is an
appendix on probability,
statistics and linear
algebra. Practicing
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The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix

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Decompositions, vector
calculus, optimization,
probability and statistics.

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disparate courses, making it
hard for data science or
computer science students,

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Others with a mathematical

background, these

derivations provide a

starting point to machine

learning texts. For those

learning the mathematics for

the first time, the methods

help build intuition and

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comprehensive, beginner-
friendly guide to R, the

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the growing world of data
analysis.

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high-dimensional geometry,
and analysis of large
networks. Topics include the
counterintuitive nature of
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important linear algebraic
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including topic modelling

and non-negative matrix

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Important probabilistic

techniques are developed

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