

Data Science (CMP3036M)

[View Online](#)

1

Casella G, Berger RL. Statistical inference. Second edition. Delhi: : Cengage Learning 2017.

2

Abu-Mostafa YS, Magdon-Ismail M, Lin H-T. Learning from data: a short course. [United States]: : AMLBook.com 2012.

3

Grimmett G, Stirzaker D. Probability and random processes. Third edition. Oxford: : Oxford University Press 2001.

4

Mood AM, Graybill FA, Boes DC. Introduction to the theory of statistics. Third edition. [Auckland?]: : McGraw-Hill Book Company 1974.

5

Hastie T, Tibshirani R, Friedman JH. The elements of statistical learning: data mining, inference, and prediction. 2nd ed. New York: : Springer 2009.

6

Murphy KP. Machine learning: a probabilistic perspective. Cambridge, Mass: : MIT Press 2012.

7

Barber D. Bayesian reasoning and machine learning. Cambridge: : Cambridge University Press 2012.

8

Bishop CM. Pattern recognition and machine learning. Oxford: : Springer 2006.

9

Hastie T, Tibshirani R, Friedman JH. The elements of statistical learning: data mining, inference, and prediction : with 200 full-color illustrations. New York: : Springer 2001.

10

Goodfellow I, Bengio Y, Courville A. Deep learning. Cambridge, Massachusetts: : The MIT Press 2016.

11

Raschka S. Python machine learning: unlock deeper insights into machine learning with this vital guide to cutting-edge predictive analytics. Birmingham: : Packt Publishing 2015.

12

McKinney W. Python for data analysis. Farnham: : O'Reilly 2013.
<http://proxy.library.lincoln.ac.uk/login?url=http://www.dawsonera.com/depp/reader/protected/external/AbstractView/S9781449323622>

13

Kevin Sheppard - Lecture Notes. https://www.kevinseppard.com/Main_Page

14

Harrington P. Machine learning in action. Shelter Island, N.Y.: : Manning Publications 2012.

15

Source Code for the book: Machine Learning in Action published by Manning.
<https://github.com/pbharrin/machinelearninginaction>

16

Zumel N, Mount J. Practical data science with R. Shelter Island, New York: : Manning 2014.

17

Nolan DA, Lang DT, editors. Data science in R: a case studies approach to computational reasoning and problem solving. Boca Raton, FL: : Chapman & Hall/CRC 2015.

18

Kabacoff R. R in action: data analysis and graphics with R. Second edition. Shelter Island, NY: : Manning 2015.

19

Wickham H. ggplot2: elegant graphics for data analysis. New York: : Springer 2009.
<https://www.vlebooks.com/vleweb/product/openreader?id=UniLincoln&isbn=9780387981413>

20

Wickham H. Advanced R. Boca Raton, FL: : Chapman & Hall/CRC 2014.

21

Sarkar D. Lattice: multivariate data visualization with R. New York: : Springer 2008.
<https://www.vlebooks.com/vleweb/product/openreader?id=UniLincoln&isbn=9780387759692>

22

Lantz B. Machine learning with R: learn how to use R to apply powerful machine learning methods and gain an insight into real-world applications. Birmingham: : Packt Publishing Limited 2013.

<https://www.vlebooks.com/vleweb/product/openreader?id=UniLincoln&isbn=9781782162155>

23

Wickham H. R packages. Sebastopol, California: : O'Reilly Media 2015.

24

Wickham H. Advanced R. Boca Raton, FL: : Chapman & Hall/CRC 2014.

25

Peng R. R Programming for Data Science. Morrisville: : Lulu.com 2016.

26

Martinez WL, Martinez AR. Computational statistics handbook with MATLAB. Third edition. Boca Raton: : Chapman & Hall/CRC 2016.

27

Kiusalaas J. Numerical methods in engineering with MATLAB. Third edition. Cambridge: : Cambridge University Press 2016.

28

Karau H, Konwinski A, Wendell P, et al. Learning Spark: lightning-fast big data analytics. Sebastopol, CA: : O'Reilly 2013.

<https://www.vlebooks.com/vleweb/product/openreader?id=UniLincoln&isbn=9781449359065>