

Data Science & Machine Learning Bibliography

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Data Science

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Machine Learning

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- James, Witten, Hastie, Tibshirani. *Introduction to Statistical Learning with Applications in R*, Springer, 2013 [excellent text after completing “intro” class, available as free [PDF download](#)].
- James, Witten, Hastie, Tibshirani, Taylor. *Introduction to Statistical Learning with Applications in Python*, 2023 [excellent text for migration to Python, available as free [PDF download](#)].
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- Kuhn, Johnson. *Applied Predictive Modeling*, Springer, 2013 [uses R for machine learning, written by creator of `caret` package].
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- Stone, James V. *Artificial Intelligence Engines: A Tutorial Introduction to the Mathematics of Deep Learning*, Sebtel Press, 2019.
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R Language

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- Baumer, Kaplan, Horton. *Modern Data Science with R, 2nd Edition*, CRC Press, 2021 [“modern” coding with R using the tidyverse].
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- Davies, Tilman M. *The Book of R: A First Course in Programming and Statistics*, No Starch Press, 2016 [great R programming text, plus Part III on Statistics and Probability, and Part IV on Statistical Testing and Modeling].
- Crawley, Michael J. *The R Book*, John Wiley & Sons, 2007 [lots of R code, lots of statistics in this 942 page tome].
- Pearson, Ronald J. *Exploratory Data Analysis Using R*, CRC Press, 2018.
- Wickham, Hadley. *ggplot2: Elegant Graphics for Data Analysis*, Springer, 2009 [authoritative text by the R guru].
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Python Language

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Mathematics

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Ethical AI

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