**Bibliography**

**Primer on Classical Statistical Forecasting:**

1. Hyndman, R. J., & Athanasopoulos, G. (2021, May). *Forecasting: Principles and Practice (3rd ed)*. 9.3 Autoregressive models. Retrieved November 23, 2021, from https://otexts.com/fpp3/AR.html.
2. Sosna, M. (2021, August 19). *A deep dive on Arima models*. Medium. Retrieved November 23, 2021, from https://towardsdatascience.com/a-deep-dive-on-arima-models-8900c199ccf.
3. Hyndman, R. J., & Athanasopoulos, G. (2021, May). *Forecasting: Principles and Practice (3rd ed)*. 9.2 Backshift notation. Retrieved November 23, 2021, from https://otexts.com/fpp3/AR.html.
4. Wikimedia Foundation. (2021, April 29). *Autoregressive integrated moving average*. Wikipedia. Retrieved November 23, 2021, from https://en.wikipedia.org/wiki/Autoregressive\_integrated\_moving\_average.
5. Phosgene89. (n.d.). *From AR to SARIMAX: Mathematical definitions of time series models*. phosgene89.github.io. Retrieved November 23, 2021, from https://phosgene89.github.io/sarima.html.
6. Hyndman, R. J., & Athanasopoulos, G. (2021, May). *Forecasting: Principles and Practice (3rd ed)*. 9.4 Moving average models. Retrieved November 23, 2021, from https://otexts.com/fpp3/AR.html.
7. Hyndman, R. J., & Athanasopoulos, G. (2021, May). *Forecasting: Principles and Practice (3rd ed)*. 9.1 Stationarity and differencing. Retrieved November 23, 2021, from https://otexts.com/fpp3/AR.html.
8. Perktold, J., Seabold, S., & Taylor, J. (2009). *Statsmodels.tsa.statespace.sarimax.SARIMAX*. statsmodels. Retrieved November 24, 2021, from https://www.statsmodels.org/dev/generated/statsmodels.tsa.statespace.sarimax.SARIMAX.html.
9. Hyndman, R. J., & Athanasopoulos, G. (2021, May). *Forecasting: Principles and Practice (3rd ed)*. 8.1 Simple exponential smoothing. Retrieved November 23, 2021, from https://otexts.com/fpp3/AR.html.
10. Hyndman, R. J., & Athanasopoulos, G. (2021, May). *Forecasting: Principles and Practice (3rd ed)*. 8.2 Methods with trend. Retrieved November 23, 2021, from https://otexts.com/fpp3/AR.html.
11. Hyndman, R. J., & Athanasopoulos, G. (2021, May). *Forecasting: Principles and Practice (3rd ed)*. 8.3 Methods with seasonality. Retrieved November 23, 2021, from https://otexts.com/fpp3/AR.html.
12. Hyndman, R. J., & Athanasopoulos, G. (2021, May). *Forecasting: Principles and Practice (3rd ed)*. 8.5 Innovations state space models for exponential smoothing. Retrieved November 23, 2021, from https://otexts.com/fpp3/AR.html.

**Primer on Artificial Neural Networks**

1. Sharma, S. (2021, July 4). *Activation functions in neural networks*. Medium. Retrieved November 24, 2021, from https://towardsdatascience.com/activation-functions-neural-networks-1cbd9f8d91d6.
2. Ng, A, Katanforoosh, K., & Mourri, Y.B. *Neural Networks and Deep Learning* [MOOC]. Coursera. <https://www.coursera.org/learn/neural-networks-deep-learning?specialization=deep-learning>
3. Dixon, M. F., Halperin, I., & Bilokon, P. (2020). Chapter 4: Feedforward Neural Networks. Section 2: Feedforward Architectures. Page 113. In *Machine Learning in Finance*. essay, Springer International Publishing.
4. Dixon, M. F., Halperin, I., & Bilokon, P. (2020). Chapter 4: Feedforward Neural Networks. Section 5: Stochastic Gradient Descent. Page 142-143. In *Machine Learning in Finance*. Springer International Publishing.
5. Kathuria, A. (2020, December 18). *Intro to optimization in Deep learning: Gradient descent*. Paperspace Blog. Retrieved November 24, 2021, from https://blog.paperspace.com/intro-to-optimization-in-deep-learning-gradient-descent/.

**Primer on Reinforcement Learning**

1. Dixon, M. F., Halperin, I., & Bilokon, P. A. (2020). Chapter 9: Reinforcement Learning, Section 2: Elements of Reinforcement Learning, Sub-Section 2.1: Rewards, page 284. In *Machine Learning in Finance: From Theory to Practice*. Book, Springer.
2. Sanghi, N. (2021). Chapter 2: Markov Decision Process, Section: Definition of Reinforcement Learning, page 20. In *Deep Reinforcement Learning with Python: With PyTorch, TensorFlow and OpenAI Gym*. Book, Apress.
3. Dixon, M. F., Halperin, I., & Bilokon, P. A. (2020). Chapter 9: Reinforcement Learning, Section 2: Elements of Reinforcement Learning, Sub-Section 2.2: Value and Policy Functions, (p. 286). In *Machine Learning in Finance: From Theory to Practice*. Book, Springer.
4. Dixon, M. F., Halperin, I., & Bilokon, P. A. (2020). Chapter 9: Reinforcement Learning, Section 2: Elements of Reinforcement Learning, Sub-Section 2.3: Observable Versus Partially Observable Environments, Equation (9.4), (p. 287). In *Machine Learning in Finance: From Theory to Practice*. Book, Springer.
5. Dixon, M. F., Halperin, I., & Bilokon, P. A. (2020). Chapter 9: Reinforcement Learning, Section 3: Markov Decision Processes, (p. 289). In *Machine Learning in Finance: From Theory to Practice*. Book, Springer.
6. Dixon, M. F., Halperin, I., & Bilokon, P. A. (2020). Chapter 9: Reinforcement Learning, Section 3: Markov Decision Processes, Equations (9.8) and (9.9), (p. 290). In *Machine Learning in Finance: From Theory to Practice*. Book, Springer.
7. Dixon, M. F., Halperin, I., & Bilokon, P. A. (2020). Chapter 9: Reinforcement Learning, Section 3: Markov Decision Processes, Sub-Section 3.2: Value Functions and Bellman Equations, Equations (9.11), (9.12), and (9.13), (p. 294). In *Machine Learning in Finance: From Theory to Practice*. Book, Springer.
8. Dixon, M. F., Halperin, I., & Bilokon, P. A. (2020). Chapter 9: Reinforcement Learning, Section 3: Markov Decision Processes, Sub-Section 3.2: Value Functions and Bellman Equations, Equation (9.10), (p. 293). In *Machine Learning in Finance: From Theory to Practice*. Book, Springer.
9. Roy, B. (2020, February 23). *All About Backup Diagram*. Medium. Retrieved November 29, 2021, from https://towardsdatascience.com/all-about-backup-diagram-fefb25aaf804.
10. Dixon, M. F., Halperin, I., & Bilokon, P. A. (2020). Chapter 9: Reinforcement Learning, Section 3: Markov Decision Processes, Sub-Section 3.2: Value Functions and Bellman Equations, Equations (9.14) and (9.15), (p. 295). In *Machine Learning in Finance: From Theory to Practice*. Book, Springer.
11. Sanghi, N. (2021). Chapter 2: Markov Decision Process, Section: Bellman Equations, Equation (2.16), (p. 41). In *Deep Reinforcement Learning with Python: With PyTorch, TensorFlow and OpenAI Gym*. Book, Apress.
12. Dixon, M. F., Halperin, I., & Bilokon, P. A. (2020). Chapter 9: Reinforcement Learning, Section 3: Markov Decision Processes, Sub-Section 3.3: Optimal Policy and Bellman Optimality, Equations (9.16), (9.17), (9.19), and (9.20), (p. 297). In *Machine Learning in Finance: From Theory to Practice*. Book, Springer.
13. Sanghi, N. (2021). Chapter 2: Markov Decision Process, Section: Optimality Bellman Equations, Equations (2.22) and (2.23), (p. 45). In *Deep Reinforcement Learning with Python: With PyTorch, TensorFlow and OpenAI Gym*. Book, Apress.
14. Dixon, M. F., Halperin, I., & Bilokon, P. A. (2020). Chapter 9: Reinforcement Learning, Section 3: Markov Decision Processes, Sub-Section 3.3: Optimal Policy and Bellman Optimality, Equation (9.21), (p. 298). In *Machine Learning in Finance: From Theory to Practice*. Book, Springer.
15. Sutton, R. S., & Barto, A. G. (2018). Chapter 6: Temporal Difference Learning. In *Reinforcement Learning: An Introduction* (Second Edition), (p. 119). Book, The MIT Press.
16. OpenAI Spinning Up. (2018). *Part 2: Kinds of RL algorithms¶*. Part 2: Kinds of RL Algorithms - Spinning Up documentation. Retrieved November 29, 2021, from https://spinningup.openai.com/en/latest/spinningup/rl\_intro2.html.
17. Sutton, R. S., & Barto, A. G. (2018). Chapter 4: Dynamic Programming, Section 4.1: Policy Evaluation (Prediction), Equation (4.5), (p. 74). In *Reinforcement Learning: An Introduction* (Second Edition). Book, The MIT Press.
18. Sutton, R. S., & Barto, A. G. (2018). Chapter 4: Dynamic Programming, Section 4.2: Policy Improvement, Equation (4.7), (p. 78). In *Reinforcement Learning: An Introduction* (Second Edition). Book, The MIT Press.
19. Sutton, R. S., & Barto, A. G. (2018). Chapter 4: Dynamic Programming, Section 4.1: Policy Evaluation (Prediction), Equation (4.9), (p. 79). In *Reinforcement Learning: An Introduction* (Second Edition). Book, The MIT Press.
20. Sutton, R. S., & Barto, A. G. (2018). Chapter 4: Dynamic Programming, Section 4.3: Policy iteration, (p. 80). In *Reinforcement Learning: An Introduction* (Second Edition). Book, The MIT Press.
21. Dixon, M. F., Halperin, I., & Bilokon, P. A. (2020). Chapter 9: Reinforcement Learning, Section 5: Reinforcement Learning Methods, Sub-Section 5.1: Monte Carlo Methods, (p. 307). In *Machine Learning in Finance: From Theory to Practice*. Book, Springer.
22. Roy, B. (2020, February 23). *All About Backup Diagram*. Medium. Retrieved November 29, 2021, from https://towardsdatascience.com/all-about-backup-diagram-fefb25aaf804.
23. Sanghi, N. (2021). Chapter 4: Model-Free Approaches, Section: Control with Monte Carlo, Equation (4.3), (p. 86). In *Deep Reinforcement Learning with Python: With PyTorch, TensorFlow and OpenAI Gym*. Book, Apress.
24. Sanghi, N. (2021). Chapter 4: Model-Free Approaches, Section: Temporal Difference Learning Methods, Equation (4.4), (p. 93). In *Deep Reinforcement Learning with Python: With PyTorch, TensorFlow and OpenAI Gym*. Book, Apress.
25. Sanghi, N. (2021). Chapter 4: Model-Free Approaches, Section: Control with Monte Carlo, Equation (4.5), (p. 95). In *Deep Reinforcement Learning with Python: With PyTorch, TensorFlow and OpenAI Gym*. Book, Apress.
26. Dixon, M. F., Halperin, I., & Bilokon, P. A. (2020). Chapter 9: Reinforcement Learning, Section 5: Reinforcement Learning Methods, Sub-Section 5.4: SARSA and Q-Learning, (p. 313). In *Machine Learning in Finance: From Theory to Practice*. Book, Springer.
27. Sanghi, N. (2021). Chapter 4: Model-Free Approaches, Section: On-Policy SARSA, Equation (4.6), (p. 99). In *Deep Reinforcement Learning with Python: With PyTorch, TensorFlow and OpenAI Gym*. Book, Apress.
28. Dixon, M. F., Halperin, I., & Bilokon, P. A. (2020). Chapter 9: Reinforcement Learning, Section 5: Reinforcement Learning Methods, Sub-Section 5.4: SARSA and Q-Learning, (p. 315). In *Machine Learning in Finance: From Theory to Practice*. Book, Springer.
29. Sanghi, N. (2021). Chapter 4: Model-Free Approaches, Section: Q-Learning: An Off-Policy TD Control, Equation (4.10), (p. 104). In *Deep Reinforcement Learning with Python: With PyTorch, TensorFlow and OpenAI Gym*. Book, Apress.