

**2020-1-HR01-KA226-HE-094713**

**O3 - Two distance learning curricula in machine learning and cloud computing**

**Machine Learning – Additional resources**

October 2022

**2020-1-HR01-KA226-HE-094713**

**CODEIN**

Cloud cOmputing for Digital Education INnovation

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| Work Package: | Intellectual Outputs |
| Product/Deliverable: | O3 - Two distance learning curricula in machine learning and cloud computing - Machine Learning - Additional resources |

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**Identification Sheet**

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| **Project Code** | **2020-1-HR01-KA226-HE-094713** |
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| **Keywords** | distance learning, cloud computing, machine learning |
| **Abstract** | During the process of research-based learning, it is crucial to have access to additional materials that go beyond what is already covered in the curriculum. To fulfill this requirement, our team of researchers has thoroughly searched for the most reliable editions that are readily available for online downloads under a Creative Commons (CC) license. In this document, you will find a list of 30 such editions in the field of machine learning, along with their respective download links. |

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## INTRODUCTION

When engaging in research-based learning, it is crucial to have access to supplementary literature that goes beyond what is covered in the curriculum. As a result, our team of researchers has explored the most reputable editions that are accessible for online download under a Creative Commons (CC) license. In the table below, you can find a list of 30 such editions along with their download links.

## CC-LICENSED EDITIONS IN MACHINE LEARNING LIST

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| --- | --- | --- | --- |
| **N** | **Title** | **Authors** | **URL1** |
| 1 | Quantum Computing for the Quantum Curious | Ciaran Hughes, Joshua Isaacson, Anastasia Perry, Ranbel F. Sun, Jessica Turner | <https://link.springer.com/content/pdf/10.1007/978-3-030-61601-4.pdf> |
| 2 | Machine Learning - A First Course for Engineers and Scientists | Andreas Lindholm, Niklas Wahlström, Fredrik Lindsten, and Thomas B. Schön | <http://smlbook.org/book/sml-book-draft-latest.pdf> |
| 3 | Mathematical Analysis of Machine Learning Algorithms | Tong Zhang | <https://tongzhang-ml.org/lt-book/lt-book.pdf> |
| 4 | Algorithms | Jeff Erickson | <https://jeffe.cs.illinois.edu/teaching/algorithms/book/Algorithms-JeffE.pdf> |
| 5 | Building Knowledge Graphs: A Practitioner's Guide | Jim Webber, Jesús Barrasa | <https://neo4j.com/knowledge-graphs-practitioners-guide/> |
| 6 | The Elements of Statistical Learning (ESL) | Trevor Hastie | <https://hastie.su.domains/ElemStatLearn/printings/ESLII_print12.pdf> |
| 7 | An Introduction to Statistical Learning (ISL) | Gareth James, Daniela Witten, Trevor Hastie, Robert Tibshirani | <https://hastie.su.domains/ISLR2/ISLRv2_website.pdf> |
| 8 | Deep Learning Illustrated | Aglaé Bassens, Grant Beyleveld, Jon Krohn | <https://dokumen.pub/deep-learning-illustrated-a-visual-interactive-guide-to-artificial-intelligence-paperbacknbsped-0135116694-9780135116692-l-4514272.html> |
| 9 | Introduction to Probability for Data Science | Stanley H. Chan | https://probability4datascience.com/index.html |

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| **N** | **Title** | **Authors** | **URL1** |
| 10 | Mathematics for Machine Learning | A. Aldo Faisal, Cheng Soon Ong, Marc Peter Deisenroth | <https://mml-book.github.io/book/mml-book.pdf> |
| 11 | Data Analysis for Social Science | Elena Llaudet, Kosuke Imai | <http://library.lol/main/977690e5e51b345c43cf63ef0c9d45ec> |
| 12 | Deep Learning with Python, Second Edition | François Chollet | <https://sourestdeeds.github.io/pdf/Deep%20Learning%20with%20Python.pdf> |
| 13 | Applications of Deep Neural Networks with Keras | Jeff Heaton | <https://arxiv.org/pdf/2009.05673.pdf> |
| 14 | Neural Network Design (2nd Edition) | Martin Hagan | <https://hagan.okstate.edu/NNDesign.pdf> |
| 15 | Algorithms for Decision Making | Kyle H. Wray, Mykel J. Kochenderfer, Tim A. Wheeler | <https://algorithmsbook.com/files/dm.pdf> |
| 16 | An Introduction to Machine Learning Interpretability | Hall, P., & Gill, N | <https://h2o.ai/content/dam/h2o/en/marketing/documents/2019/08/An-Introduction-to-Machine-Learning-Interpretability-Second-Edition.pdf> |
| 17 | Explainable and interpretable models in computer vision and machine learning | HJ Escalante | <https://vdoc.pub/download/explainable-and-interpretable-models-in-computer-vision-and-machine-learning-376vffdaast0> |
| 18 | Python for Data Analysis, 3rd Edition | Wes McKinney | <https://wesmckinney.com/book/> |
| 19 | The Principles of Deep Learning Theory: An Effective Theory Approach to Understanding Neural Networks | Daniel A. Roberts, Sho Yaida, Boris Hanin | <https://arxiv.org/pdf/2106.10165.pdf> |
| **N** | **Title** | **Authors** | **URL1** |
| 20 | Deep Learning Interviews: Hundreds of fully solved job interview questions from a wide range of key topics in AI | Shlomo Kashani, Amir Ivry | <https://arxiv.org/pdf/2201.00650.pdf> |
| 21 | Dive into Deep Learning | Aston Zhang, Zachary C. Lipton, Mu Li, Alexander J. Smola | <https://arxiv.org/pdf/2106.11342.pdf> |
| 22 | Deep Learning | Ian Goodfellow, Yoshua Bengio, Aaron Courville | <https://www.deeplearningbook.org/> |
| 23 | Understanding Machine Learning: From Theory to Algorithms | Shai Shalev-Shwartz and Shai Ben-David | <https://www.cs.huji.ac.il/~shais/UnderstandingMachineLearning/understanding-machine-learning-theory-algorithms.pdf> |
| 24 | A Brief Introduction to Machine Learning for Engineers | Osvaldo Simeone | <https://arxiv.org/pdf/1709.02840.pdf> |
| 25 | Brief Introduction to Machine Learning without Deep Learning | Cho, K | <https://github.com/nyu-dl/Intro_to_ML_Lecture_Note/raw/master/lecture_note.pdf> |
| 26 | Foundations of Machine Learning | Mohri, M., Rostamizadeh, A., & Talwalkar, A. | <https://www.dropbox.com/s/38p0j6ds5q9c8oe/10290.pdf?dl=1> |
| 27 | AutoML: Methods, Systems, Challenges | Frank Hutter, Lars Kotthoff, Joaquin Vanschoren | <https://www.automl.org/wp-content/uploads/2019/05/AutoML_Book.pdf> |
| 28 | Pattern Recognition and Machine Learning | Bishop, C. M., & Nasrabadi, N. M. | <https://www.microsoft.com/en-us/research/uploads/prod/2006/01/Bishop-Pattern-Recognition-and-Machine-Learning-2006.pdf> |

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