

Machine Learning: References

Introduction au Machine Learning

[Azencott, 2022]

2nd edition of this textbook in french.

<https://cazencott.info/index.php/pages/Introduction-au-Machine-Learning>

scikit-learn docs

<https://scikit-learn.org/stable/>

Deep learning book

[Goodfellow et al., 2016]

<https://www.deeplearningbook.org/>

Learning theory from first principles

[Bach, 2024]

Heavily mathematical.

https://www.di.ens.fr/~fbach/ltfp_book.pdf

Histoire de l'IA

[Fürst, 2025]

Interesting historical aspects compiled by Frédéric Fürst.

<https://home.mis.u-picardie.fr/~furst/IA.php>

Apprentissage artificiel : concepts et algorithmes

[Cornuéjols and Miclet, 2003]

Introduction to Machine Learning

[Alpaydin, 2014]

<https://mitpress.mit.edu/books/introduction-machine-learning-fourth-edition>

Understanding machine learning : from theory to algorithms

[Shalev-Shwartz and Ben-David, 2013]

<https://www.cs.huji.ac.il/w~shais/UnderstandingMachineLearning/>

Analyse numérique et optimisation : une introduction à la modélisation mathématique et à la simulation numérique

[Allaire, 2012]

Chapters 9 and 10 are an introduction to optimization, in french.

The elements of Statistical learning

[Hastie et al., 2009]

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- [Allaire, 2012] Allaire, G. (2012). Analyse numérique et optimisation Une introduction à la modélisation mathématique et à la simulation numérique. Éditions de l'École Polytechnique, (2) :480.
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- [Azencott, 2022] Azencott, C.-A. (2022). Introduction au Machine Learning - 2e éd.
- [Bach, 2024] Bach, F. (2024). Learning Theory from First Principles. Adaptive Computation and Machine Learning series. MIT Press.
- [Cornuéjols and Miclet, 2003] Cornuéjols, A. and Miclet, L. (2003). Apprentissage artificiel : Concepts et algorithmes, volume 50.
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- [Hastie et al., 2009] Hastie, T., Tibshirani, R., and Friedman, J. (2009). The Elements of Statistical Learning. Elements, 1 :337–387.
- [Shalev-Shwartz and Ben-David, 2013] Shalev-Shwartz, S. and Ben-David, S. (2013). Understanding machine learning : From theory to algorithms, volume 9781107057135.