Literature and Resources
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Books

Pattern Recognition and Machine Learning. Bishop, 2006
A classic in the field of ML. Link, PDF

An Introduction to Statistical Learning with Applications. James et al., 2023
A more practical resource, with many examples in Python or R. Link

Artificial Intelligence: A Modern Approach. Russel and Norvig, 2021
Builds on the idea of intelligent agents, and applies ML to various fields. Link, PDF

Online resources

Machine Learning Mastery. Jason Brownlee
Rich resource with practical answers to various questions in the field of ML. Link

Machine Learning Spezialization. Andrew Ng, 2022
A YouTube playlist with popular tutorial videos on ML. Link

The SciKit-Learn MOOC
A Jupyter-based resource, enriched with videos and learning activities. Link, Repo

Collection of Python Machine Learning Notebooks
Link

Towards data science
A Medium off-spring with good articles on machine learning topics. Link

StackOverflow / StackExchange
CrossValidated for concepts, and StackOverflow for practical aspects (Python, R)