

## Hands On Machine Learning with Scikit Learn and Tensorflow published by O'Reilly and written by Aurelien Geron

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### Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow: Concepts, Tools, and Techniques to Build Intelligent Systems 2nd Edition

by Aurélien Géron (Author)

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Through a series of recent breakthroughs, deep learning has boosted the entire field of machine learning. Now, even programmers who know close to nothing about this technology can use simple, efficient tools to implement programs capable of learning from data. This practical book shows you how.

By using concrete examples, minimal theory, and two production-ready Python frameworks—Scikit-Learn and TensorFlow—author Aurélien Géron helps you gain an intuitive understanding of the concepts and tools for building intelligent systems. You'll learn a range of techniques, starting with simple linear regression and progressing to deep neural networks. With exercises in each chapter to help you apply what you've learned, all you need is programming experience to get started.

- Explore the machine learning landscape, particularly neural nets
- Use Scikit-Learn to track an example machine-learning project end-to-end
- Explore several training models, including support vector machines, decision trees, random forests, and ensemble methods
- Use the TensorFlow library to build and train neural nets
- Dive into neural net architectures, including convolutional nets, recurrent nets, and deep reinforcement learning
- Learn techniques for training and scaling deep neural nets.

GitHub: [https://github.com/ageron/handson-ml/blob/master/10\\_introduction\\_to\\_artificial\\_neural\\_networks.ipynb](https://github.com/ageron/handson-ml/blob/master/10_introduction_to_artificial_neural_networks.ipynb)

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master 2 branches 0 tags Go to file Add file Code

ageron Merge pull request #624 from jdaviesx/patch-1 ...	8848198 14 days ago	489 commits
datasets	Update README.md	3 years ago
docker	Update docker to latest libraries (but sticking to TensorFlow 1.15 in...	28 days ago
images	Add clustering, density estimation and anomaly detection to chapter 8	3 years ago
.gitignore	Add datasets/titanic, .vscode, *.bak.* and person.*	28 days ago
01_the_machine_learning_landscape.ipynb	Change kernel name from tf1 to python3	27 days ago
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#### About

A series of Jupyter notebooks that walk you through the fundamentals of Machine Learning and Deep Learning in python using Scikit-Learn and TensorFlow.

python machine-learning  
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Readme

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