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Out now: spaCy v3.2MenuUsageModelsAPIUniverseMachine learning has become an integral part of many commercial applications and research projects, but this field is not exclusive to large companies with extensive research teams. If you use Python, even as a beginner, this book will teach you practical ways to build your own machine learning solutions. With all the data available today, machine learning applications are limited only by your imagination.View moreAuthor infoAndreas Müller, Sarah GuidoCategories books If you've come across a universe project that isn't working or is incompatible with the reported spaCy version, let us know by opening a discussion thread.If you have a project that you want the spaCy community to make use of, you can suggest it by submitting a pull request to the spaCy website repository. The Universe database is open-source and collected in a simple JSON file. For more details on the formats and available fields, see the documentation. Looking for inspiration your own spaCy plugin or extension? Check out the project idea label on the issue tracker.Read the docsJSON source© 2016-2022 ExplosionLegal / Imprint Photo Courtesy: Christian Science Monitor/Getty Images Modern society is built on the use of computers, and programming languages are what make any computer tick. One such language is Python. It's a high-level, open-source and general-purpose programming language that's easy to learn, and it features a broad standard library. Guido van Rossum developed it in 1991, and it still sees plenty of use today. Python is designed for automated memory maintenance, the implementation of basic concepts of object-oriented programming (OOP) and developing programming paradigms. You can also use it to establish frameworks, like Pyramid and Django, or high-level content management systems, like Plone and Django CMS. If all this sounds complicated, don't worry. The following Python tutorials are designed for people who don't know anything about the language as well as those with more experience. These are some of the best tutorial platforms for learning Python on your own.The Python Software FoundationWho better to learn the Python programming language from than the organization that continues to maintain it? Python.org is the official website of the Python Software Foundation, and it has a wonderful tutorial for anyone looking to either learn the basics of the language or familiarize themselves with more advanced features. Photo Courtesy: MediaNews Group/Orange County Register via Getty Images/Getty Images Interested in learning what mutable and immutable objects (MIO)? Python enhanced proposals (PEP)? Generators and iterators entails? The tutorial has you covered. As you gain experience, you'll be able to advance to other topics like Python libraries.Learn Python the Hard Way"Learn Code the Hard Way" definitely doesn't have the most inviting name, but it's actually a popular and easy-to-use online platform for learning programming, including how to use Python. Other programming languages you can learn about on the site include JavaScript, C, SQL and more. Photo Courtesy: Bloomberg/Getty Images Topics you can expect to learn about include functions, strings and text, classes and objects and variables and names. While full courses cost \$20 to \$30 each, the first portion of each course is available for free online, which can be enough for many users. Either way, once you've completed the free content, you'll likely know if the full course is something you want to spend money on.CourseraCoursera is a great website for learning about basically anything. While most courses are not free, they're significantly cheaper than attending a university (roughly \$30 to \$100 a month), and many can be audited for free. Without paying anything, you get access to most or all course materials, including videos and readings. The site also offers videos in multiple languages, including English, Chinese, French, Russian, Spanish and others. Subtitles in more languages are also available. Photo Courtesy: Bloomberg/Getty Images You can find courses on Python (among other programming languages) that are appropriate for learners of nearly ever levels. From Python for Data Science and A.I. to a class that's literally called Python for Everybody offered through the University of Michigan, there's no shortage of options.UdemyLike Coursera, Udemy courses on a range of subjects. With topics ranging from advanced Python features like timestamps and decorators to basic coding exercises, the education platform can propel you from beginner to expert in no time. While only a few courses are free, most are fairly cheap, and sales are frequent. Photo Courtesy: SOPA Images/Getty Images Start your preferred Python course by signing up for an account on the platform. You'll receive a certificate of completion upon completing the entire course. Options include Introduction to Python Programming, Learn Python 3.6 for Total Beginners and Python for Absolute Beginners. More advanced courses for Python 2.0 and Python 3.0 as well as Python REPL also exist.CodecademyMore than 45 million students have learned programming languages through Codecademy, and the education company has continued to emphasize the importance of developing diverse coding skills as well as the overall learning experience. Codecademy was established in 2011 and has emerged as the go-to online learning platform for free coding classes. Photo Courtesy: MediaNews Group/Orange County Register via Getty Images/Getty Images The company has several courses that cover the full range of Python skills. Like Coursera, while certificates, step-by-step support and other features require a Codecademy subscription, interactive lessons and daily practice are free. You can also use the free code editor and access the community discussion forums to discuss lessons with other learners. MORE FROM QUESTIONSANSWERED.NET If your company isn't treating data like an asset, you could be missing out on a major growth opportunity.That's according to Swami Sivasubramanian, vice president of Amazon Machine Learning. Sivasubramanian was speaking during a keynote conversation on data and machine learning Wednesday at AWS re:Invent, a conference for business owners and other technical decision-makers hosted by Amazon Web Services in Las Vegas.Sivasubramanian says there are three things companies can do to make the most of their data. Here's his advice.Too many companies still treat their data like it's the 1990s when they should be implementing a modern data strategy, according to Sivasubramanian. This applies to both storing your data and "putting your data to work," he says. In many cases, hiring an outside company to manage your database for you can save resources and help ensure your operations run smoothly. Sivasubramanian adds that a cloud-based solution will help ensure that your company's data—even the most obscure, infrequently used bits—can be easily accessed by your teams that need it.Applying modern solutions like machine learning to your database can also help you detect problems faster. For example, an application slowdown that might otherwise go undetected for days can be identified and diagnosed quickly with machine learning. It can also provide suggestions for fixing problems with your data, which can be time consuming and costly if you're still doing so manually. It's important to have what Sivasubramanian refers to as a "single source of truth" about your business. Ensuring that your teams are all looking at the same data can help your company make the most of it. Of course, this doesn't mean every team should have access to every piece of data; different teams can and should have different permissions and levels of access. What's important is that this data is consistently reported and recorded. "Opportunities to transform your business with data exist all along the value chain," says Sivasubramanian. "But creating such a solution requires companies to have a full picture and a single view of their customers and their business."Applying insights to your data can help you improve existing operations or build entirely new ones. Sivasubramanian points to several AWS customers that have benefited from applying machine learning and analytics to their data. Tyson Foods has used cameras armed with computer vision to identify ways to reduce waste by cutting down on packaging. And Pinterest has used natural language processing to create more accurate search engines that allow employees to find the information they need faster."Machine learning is improving customer experiences, creating more efficiencies, and spurring completely new innovations," says Sivasubramanian. "And having the right data strategy is the key to these innovations." This repository holds the code for the forthcoming book "Introduction to Machine Learning with Python" by Andreas Mueller and Sarah Guido. You can find details about the book on the O'Reilly website. The books requires the current stable version of scikit-learn, that is 0.20.0. Most of the book can also be used with previous versions of scikit-learn, though you need to adjust the import for everything from the model_selection module, mostly cross_val_score, train_test_split and GridSearchCV. This repository provides the notebooks from which the book is created, together with the mglearn library of helper functions to create figures and datasets. For the curious ones, the cover depicts a hellbender. All datasets are included in the repository, with the exception of the aclImdb dataset, which you can download from the page of Andrew Maas. See the book for details. If you get ImportError: No module named mglearn you can try to install mglearn into your python environment using the command pip install mglearn in your terminal or !pip install mglearn in Jupyter Notebook. Errata Please note that the first print of the book is missing the following line when listing the assumed imports: from IPython.display import display Please add this line if you see an error involving display. The first print of the book used a function called plot_group_kfold. This has been renamed to plot_label_kfold because of a rename in scikit-learn. Setup To run the code, you need the packages numpy, scipy, scikit-learn, matplotlib, pandas and pillow. Some of the visualizations of decision trees and neural networks structures also require graphviz. The chapter on text processing also requirs nltk and spacy. The easiest way to set up an environment is by installing Anaconda. Installing packages with conda: If you already have a Python environment set up, and you are using the conda package manager, you can get all packages by running conda install numpy scipy scikit-learn matplotlib pandas pillow graphviz python-graphviz For the chapter on text processing you also need to install nltk and spacy: Installing packages with pip If you already have a Python environment and are using pip to install packages, you need to run pip install numpy scipy scikit-learn matplotlib pandas pillow graphviz You also need to install the graphiz C-library, which is easiest using a package manager. If you are using OS X and homebrew, you can brew install graphviz. If you are on Ubuntu or debian, you can apt-get install graphviz. Installing graphviz on Windows can be tricky and using conda / anaconda is recommended. For the chapter on text processing you also need to install nltk and spacy: Downloading English language model For the text processing chapter, you need to download the English language model for spacy using python -m spacy download en Submitting Errata If you have errata for the (e-)book, please submit them via the O'Reilly Website. You can submit fixes to the code as pull-requests here, but I'd appreciate it if you would also submit them there, as this repository doesn't hold the "master notebooks". Page 2 You can't perform that action at this time. You signed in with another tab or window. Reload to refresh your session. You signed out in another tab or window. Reload to refresh your session.

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