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This course is the first of two courses of sequencing: Introduction to Computer Science and Programming using Python, and An Introduction to Computational Thinking and Data Science. Together, they are designed to help people without prior contact with computer science or programming learn to think computationally and write programs to solve useful problems. Some of the people taking these two courses will use them as a stepping stone for more advanced computer science courses, but for many it will be their first and last computer science courses. This launch includes lecture videos, lecture exercises and challenge sets using Python 3.5. Even if you've previously completed a course with Python 2.7, you can easily switch to Python 3.5 in future courses or sign up now to refresh your studies. Since these courses may be the only official computer science courses that many students will prepare, we decided to focus on breadth rather than depth. The goal is to provide students with a brief introduction to many topics so that they have an idea of what is possible when they need to think about how to use computing to achieve a goal in a later sense of their career. However, they are not computation of appreciation courses. They are complex and rigorous courses in which students spend a lot of time and effort learning to bend the computer according to their will. The concept of Python programming language computing Some simple algorithms Testing and debugging Unofficial introduction into algorithmic data structures complexity become suitable for academic credit and emphasize your new skills and knowledge with a proven certificate. Use this valuable credential to qualify for academic credit, promote your career, or strengthen your school applications. Get an academic loan after successfully completing a course To give out an instructor signed a certificate with the institution's logo Add certificate on your resume or resume, or post it directly on LinkedIn About Charter Oak State College Credit-Acceptable Courses: We collaborate with Charter Oak State College, a Connecticut Public Online College, to provide students with a unique opportunity to be awarded a transfer loan to a job completed in separate edX courses. This partnership will give students from all walks of life an affordable and flexible way to earn college credit, track their accomplishments and work toward a degree. Students who are enrolled in a Verified Track Certificate and take a course with 65% or higher are eligible for the Charter Oak State College loan. Credit details: Number of credit hours for this course: 3 credit hours: \$300 USD (\$100 USD/Credit Hour) - payment of the loan earned course with 65% or better. Eligibility: A student must register with a Verified Certificate to be eligible for a loan at the end of the course. The student must comply with all and policies of academic integrity throughout the course. A student should get a pass score of 65% or better in the frequently asked questions of the course What type of computing environment do I need for this course? You should have a computer running one of the following operating systems: Microsoft Windows, version of XP or more (XP, Windows Vista, or Windows 7) Apple OSX, version 10.2 or more Linux - most of the distributions that have been released in the last two years should work Also, you will need the ability to download, install and run the software on your computer. Is there a textbook? Which browser should I use? We strongly recommend using the Chrome browser when visiting the edX site. This site is optimized for Chrome viewing. If you can't use Chrome, you should use the Firefox browser. Keep in mind you may have problems with the functionality of the site if you decide to use an alternative browser. Which programming language (s) will use this course? 6.00x will use the programming language Python, version 3.5. You don't have to have any prior programming knowledge - this course is designed for students who have little or no experience with any programming language. What is the class format? The class will consist of lecture videos that are broken into small pieces, usually eight to twelve minutes each. Some of these may contain integrated check yourself questions. There will also be programming assignments and standalone exams/quizzes that are not part of the video lectures. Will the text of the lectures be available? Yes, the course transcripts will be available. Do I need to watch lectures live? No. You can watch lectures at your leisure - you don't need to watch lectures at any time. How much does the course cost? Nothing: the course is free. Unfortunately, students from one or more of the following countries or regions will not be able to register for this course: Iran, Cuba and the Crimean region of Ukraine. While edX has requested licenses from the U.S. Office of Foreign Assets Control (OFAC) to offer our courses to students in these countries and regions, the licenses we have obtained are not broad enough to allow us to offer this course in all locations. EdX sincerely regrets that U.S. sanctions prevent us from offering all of our courses to everyone, no matter where they live. Technology geek, blogger, IT enthusiast, enjoy learning, reading and sharing about IT Knowing Python is the most valuable skill to start a data scientist career. Although other languages (R, Java, S.L, MATLAB, TensorFlow, etc.) are used for data tasks, there are several reasons why experts choose Python. It has some advantages, such as: it's powerful, but just learnt level, so the code looks like it was written in English compatible with various platforms including Windows, Windows, Linux it is an interpretable language - it launches a line of code along the line offering libraries for data collection, cleaning, conversion, visualization, modeling and audio/image recognition, you can do complex calculations using simple syntax, so Python and data science have become a kind of synonym. Vanilla Python provides all the opportunities to work with data, but the following libraries make it easier to transfer data. NumPy NumPy is a general purpose library for large arrays and matrixes. Along with scientific abilities, NumPy can be a multidimensional repository of shared data. You can identify any type of data. This ensures seamless integration

with different databases. It provides functions for array processing, form manipulation, choice, sorting, B/O, Fourier discrete transformations, linear algebra, statistical operations, and so on. NumPy arrays have some differences from Python: fixed size: Changing its size will create a new array and remove the primary one. The items must have the same type of data. To take the same size. Advanced operations on large amounts of data performed faster and using less code. To use most of the scientific functions of Python is not enough to know how Python's sequence of types work - it requires understanding how to use NumPy arrays. Scrapy is the most popular high-level. One of the best things about Scrapy is that the requests are handled asynchronously. This means that the framework does not wait for the request to be processed to submit the following requests or to do anything. And if something fails or an error occurs, other requests keep going. Using Scrapy, you can set the courtesy of the bypass, delay the download between processes, and limit the number of simultaneous requests. Scrapy provides a wide range of features to improve web recycling: Support for extracting data from HTML/XML using XPath expressions and advanced CSS. Drop-Shell selectors, used to test and debug code without launching spiderexport feed generation and STORAGE. A set of built-in extensions to work with cookies and session, function http, robots. It has a large set of algorithms for controlled and uncontrolled approaches to learning. One of the advantages of the library is that it is based on some other popular packages and integrates them easily. Another advantage is its extensive community and detailed documentation. Scikit-learn is widely used for research, for industrial systems that use classical algorithms, and for beginners who are just taking their first steps in this area. Scikit-learn does not solve the problem of downloading, processing, manipulating, and visualizing. She specializes in algorithms for both controlled controlled regression) and uncontrolled learning (clustering, reducing dimension and detecting anomalies). Matplotlib. Matplotlib is a standard two-dimensional data visualization library. It's a flexible and easily customizable library that, along with NumPy, SciPy and IPython, provides features similar to MATLAB. Matplotlib helps you make static, animated, and interactive stories by writing a few lines of code. The results can be used to illustrate publications. While the Matplotlib style and interface may seem a bit dated, we can't ignore it as a well-tested multiplatform graphics engine. Any other Python building tool is built on Matplotlib, so to make any chart with Python, you need to know the basics of Matplotlib. The package supports several types of diagrams and diagrams: Line plot. Scatter plot. Bar chart. Histogram. Pie chart. Stem plot. Contour plot. 12. Spectrogram. Spy. Py. Sci. Py is an open source ecosystem for all types of mathematical, scientific and engineering projects. The SciPy Library is the main library of the SciPy stack. The package is under a BSD license and is supported by the developer community. SciPy contains many effective templates for numerical integration, interpolation, optimization, linear algebra and statistics. Detailed documentation simplifies the library. SciPy is designed to work with NumPy, so its core data structure is a multidimensional NumPy array. Used together, they are supported by all popular operating systems, installed quickly, and are free. SciPy Benefits: It contains many sub-packs to manage with each scientific computing issue. It is the most popular scientific library after GSL (GNU Science Library) for C and C#. Simple to use. Great Computing Power. Works with NumPy arrays. Pandas. Pandas is a high-level python library for data analysis. In the Python ecosystem, pandas are the most advanced and fastest growing data processing and manipulation tool. This allows you to convert data structures into DataFrame objects, process missing information, add/remove DataFrame columns, add missing files, and display data as a histogram or story box. This is necessary for data processing, manipulation, and visualization. Pandas is built over the NumPy package and is based on two powerful types of data structure: the one-dimensional series and similar to the lists of elements. DataFrames, which are two-dimensional, like tables with multiple columns of Pandas benefits: Through its series and DataFrames, it can present the data appropriately for data analysis. Library offers different methods for simple data filtering. It has different tools for seamless processes in the processing of vi-control and reads data from CSV, TSV, XLSX files and Another. Conclusion. The 6 libraries mentioned above cannot be named a complete list of the best Python-based data science libraries. The Python Ecosystem has many other to work with complex models and complex calculations. But the tools mentioned above are mandatory. Immun data that form the basis of other higher-level libraries. I hope the article will help you choose the right direction for your future data science projects. Let me know what kind of Python framework you use in the comments below. Below. computer science python class 11 sumita arora. computer science python class 11 sumita arora pdf. computer science python class 11 pdf. computer science python class 11 ncert pdf. computer science python class 11 preeti arora. computer science python class 11 syllabus. computer science python class 11 sumita arora solutions. computer science python class 11 ncert

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