Simple balance sheet practice problems using python using

Matlab publication adapted from In this example, we show some ways to choose cuér of several models fits better in the data. The R^2 value represents approximately the variation fraction of the data that the model can describe. Please note the following diagram: here, the task is downloaded / distributed among the natives / processes by pool object. These are the different sequences that can be produced in the previous example for a single retirement and depth action. This is a possible sequence that gives an erroneous response since both processes read the same value and write it accordingly.p1p2balanceread (balance) Current = 100100Read (Balance) Current = 100100BALANCE = CURRENT-1 = 99write (Balance) 99BALANCE = CURRENT+1 = 101WRITE (BALANCE) 101 are 2 possible sequences that are desired on the previous stage. Current-1 = 99write (balance) 99Read (balance) current = 9999balance = current+1 = 100write (balance) 100p1p2balanceread (balance) current = 100100balance = current+1 = 101write (balance) 101read (balance) current = 101101balance = current- 1 = 100write (Write Balance) 100 The use of the multiprocessing mide lockspoporable a lock class to deal with the career conditions. As a result, the mylist content and the square definition will be distributed among the numbers. Loading ... In the end, it is difficult to justify a more complex model that a line in this case. That could indicate an experimental source of error. That is why the adjustment still looks good, but it is not as good as letting the intercept is an adjustment parameter. In the previous example, we assign MyList to the Square function. residuals = p - np.dot (a, x) plt.figure () plt.ploot (t, residuals, 'ko') plt.xlabel ('temperature') plt.ylabel ('residual') plt.savefig (' images/model-select-no-incpt-resid.png ') can see a slight tendency to decreased value of value - - b((mus.pn = 2amgis)x(nel = k)b(nel = n)b ,A(qstsl.glanil.pn = s ,knar ,ser ,x ;P = b T.)]T[(kcatsv.pn = A .arutarepmeT al atnemua euq adidem a selaudiser / (n - k) c = sigma2 * np.linalg.inv (np.dot (a.t, a)) se = np.sqrt (np.diag (c)) of scipy.stats.distribrionions import t alpha = 0.05 ST = t.ppf (1 -Alfa/2.0, n - k) # Student t multiplier ci = st * is stopped, ci in zip (x, ci): print ('[{0} {1}]'. Format (Beta - ci, beta + ci)) Plt.figure () Plt.ploot (t, p, 'k. There are some ways to examine this. This can indicate a deficiency in the model without interception. Result = p .map (Square, Mylist) Once all workers' processes end their task, a list is returned with the final result. This article is contributed by Nikhil Kumar. We need to read the data and make an analysis of returning in P vs. residual = p - np.dot (a, x) plt.figure () f, (ax1, ax2, ax3) = plt.subplots (3) ax1.ploot (t, waste, 'ko') ax1.set_xlabel ('temperature ') Run_order = data [:, 0] ax2.ploot (Run_order, residuals,' ko ') ax2.set_xlabel (' run order ') ambientt = data [:, 2] ax3.ploot (ambientt, waste,' ko ') Ax3.set _xlabel ('Ambient temperature') Plt.tight_layout () # Be sure that the graphics do not overlap PLT.Savefig ('Images/model-select of execution. Consider a quadrostic model instead. The blockade is implemented using a semi -formal object provided by the operating system. A semi -form is an object of synchronization that controls access by multiple processes to a common resource in a parallel programming environment. Specifically, we hope that the interception is 273*r*n/v. We can use a delay to evaluate this, where we draw residuals [i] vs. residual [I-1], that is, we seek correlations between adjacent waste. For the ideal gas law in Degc: \ (PV = NR (t + 273) \) or \ (p = nr/v*t + 273*nr/v \), so it is expected that the intersection is not zero in this case. It has all that allow tasks to be discharged to the processes of the workers of ways. These are: Processes: Specify the number of workers' processes. Máxtasksperchild: Specify the maximum number of tasks that will be assigned by child. You can perform all processes in a group group perform some initialization ³ these arguments:initializer: specify an initialization function ³ ³ for worker processes.initargs: arguments to pass to initializer.Now, to perform some task, we have to assign it to some function³ n. That's an example of the deficiency of our model. Since the molar density of a gas is quite small, the interception ³ not close, but not equal to zero. The semaphores can be binary (0 or 1) or they can have additional values. Consider a model with interceptÃ ³ n = 0, P = alpha*T. Therefore, a value close to one means that almost all variations are described by the model, except for random variations. We want to make sure that there are no systematic trends in errors between fit and data, and we want to make sure that there are no hidden correlations with other variables. You can also see that the value R^2 is no better than that of a linear adjustment, so adding ³ a pair does not increase the goodness of fit. It is simply a value in a designated place in the storage of the operating system (or kernel) that each process can check and then change. We will use linear algebra to calculate the line coefficients. This unpredictability in equilibrium value is nothing other than the condition ³ race. Let's try to understand it better using the sequence diagrams below³ The data is stored in a PT.txt download text file, with the following structure: Run Ambient Fixed Order Day Temperature Temperature Pressure Value ³ n Residual 1 1 23.820 54.749 225.066 222.920 2.146 ... Depending on the value found, the process can either use the resource or verify that it is already in use and that it must wait some time before trying again. Typically, a process that uses semÃocus checks the value and then, if ³ uses the resource, changes the value to reflect it so that the users of semÃocus know how to wait. Take into account the example shown below: Import multiprocessingdef retire (balance, lock): for _ in range (10000): lock.acquir () balance.value = balance.value - 1 1 1 1 Deposite (balance, block): for _ in the range (1000): block. 100) Block = multiprocessing.lock () p1 = multiprocessing.process (target = remove, args = (balance, block) p2 = multiprocesing.process (target = deposit, args = (balance, block)) p1.start () p2 .start () p1.Join () p2.join () print ("final balance = {}". format (balance.value)) Yes __name__ == "__main__": for _ in the range (10): perform_transactions ( ) Output: Final balance = 100 final balance = 100 final balance = 100 final balance = 100 final balance = 100 final balance = 100 final balance = 100 Final balance = 100 Final balance = 100 Let's try to understand the previous code Step: First, a blocking object is created using: lock = multiprocessing.lock () Then, the block is passed as an argument of the objective function: p1 = multiprocessing.process (target = withdraw, args = (balance, block)) p2 = multiprocessing.process (target = deposit, args = (balance, blocking)) in the critical section of the objective function, we apply blockade with the whole lock.acquire () . In Python we begin to count in 0, so we actually want columns 3 and 4. The waste should not show any patron when they are drawn against any variable, and they do not do so in this case. See discussion Improve the article Save article as the previous requirement of the article: Multiprocessing in Python | Set 1, Set 2, this article discusses two important concepts related to multiprocessing in Python: synchronization between the compensation of processes processes, synchronization between processes, synchronization of processes is defined as a mechanism that guarantees that two or mism Concurrent processes do not simultaneously execute some particular program segment known as critical section. The critical section refers to the parties program where the shared resource is accessed. For example, in the diagram below, 3 processes try to access shared resources or a critical section at the same time. Concurrent access to shared shared resource leads to the ³ condition of anticipation³ A condition ³ anticipation ³ occurs when two or more processes can access shared data and try to change it at the same time. The expected ending balance is 100, but what we get in 10 iterations of the function ³ Perform_Transactions are some different values. This is due to simultaneous process access to the shared data balance. import numpy as np import matplotlib.pyplot as plt data = np.loadtxt('data/PT.txt', skiprows=2) T = data[:, 3] P = data[:, 4] plt.plot(T, P, 'k.') plt.xlabel('Temperature') plt.ylabel('Pressure') plt.savefig('images/model-selection-1.png') It seems that the data is roughly linear, and we know from the ideal gas law that PV = nRT, or P = nR/V*T, says P shouldÃ be correlated linearly with V. This graph should be random, without correlations if the model is good. As a result, the values of the variables can be unpredictable and vary depending ³ the times of the process context changes.Consider the program below ³ to understand the concept of career condition:³ multi-processing import of retirement(balance): for _ in range(10000): balance.value = balance.value - 1def deposit(balance): for _ in range(10000): balance.value = balance.value + 1def performance_Transactions(): balance = multiprocessing.Value('i', 100) p1 = multiprocessing.Process(target=retire, args=(balance,)) p2 = multiprocessing.Process(target=deposit, args=(balance,)) p1.start() p2.start() p1.join() p2.join() print("Final balance = {}".format(balance.value))if __name__ == "__main__": for _ in range(10): Perform_Transactions()If you run the previous program, you will get some unexpected values such as this:Ending balance = 1311 Ending balance = 199 Ending balance = 558 Ending balance = -2265 Ending balance = 1371 Ending balance = 1158 Ending balance = -577 Ending balance = -1300 Ending balance = -341 Ending balance = 157 In the previous program, 10000³000 transactions site is carried out with the initial balance as 100. Plt.figure (); PLT.CLF () PLT.PLOT (residual [1: -1], PLT.PLOT (residual [1: -1], plt.xlabel ('residual[i]') plt.ylabel ('residual[i-1]') plt.savefig ('images/model-selection-correlated-residuals.png') It's hard to argue that there is any correlation here. We assume that all mistakes are not correlated with each other. This is an example of data overfitting. The Pool class represents a group of work processes. The user does not have to worry about creating processes explicitly.Consider the program shown below:import multiprocessingimport osdef square (n): print ("Working process id for {0}: {1}".format (n, os.getpid ()) returns (n*n) if __name__ == "__main__": mylist = [1,2,3,4,5] p = multiprocessing.Pool () result = p.map (square, mylist) print (result) Output:Work process id for 2: 4152Work process id for 1: 4151Work process id for 4: 4151Work process id for 3: 4153Work process id for 5: 4152 [1, 4, 9, 16, 25] Let's try to understand the code or previous step by step:We create a Pool object using: p = multiprocessing.Pool () There are some arguments for gaining more control over the downloading of tasks. T. Let's look at the residuals again. If you like GeeksforGeeks and want to contribute, you can also write an article at contribute.geeksforgeeks.org or send your article to contribute@geeksforgeeks.org. We want to select a model that relates pressure to gas temperature. ', T, np.dot (A, x)) plt.xlabel ('Temperature') plt.ylabel ('Pressure') plt.legend (['data', 'fit']) ybar = np.mean (P) Stot = np.sum ((P – ybar) **2) Serr = np.sum ((P – np – np dot (A,x)) **2) R2 = 1 – Serr/SStot plt.title ('R^2 = {0:1.3f} '.format (R2)) plt.savefig ('images/model-selection-no-intercept.png') The visual fit is still pretty good and the R^2 value is only slightly worse. Since the constant in this model is apparently not significant, let's consider the simplest model with a fixed intersection of zero. We have data for the total pressure and the of a fixed amount of a gas in a tank that was measured along several days. A = np.vstack ([t ** 0, t]). T b = p x, res, res, s = np.linalg.lstsq(A, b) intercept, slope = x print('b, m =', intercept, slope) n = len(b) k = len(x) sigma2 = np.sum((b - np.dot(A,x))**2) / (n - k) C = sigma2 * np.linalg.inv(np.dot(A.T, A))) se = np.sqrt(np.diag(C)) of scipy.stats.distributions import t alfa = 0,05 s T = t.ppf(1-alpha/2., n - k) # student T multiplicer CI = sT * is printed('CI = ',CI) for beta, ci in zip(x, CI): print('[{0} {1}]'.format(beta - ci, beta + ci)) The confidence interval in the interception³ n is large, but does not contain zero at the 95% confidence level. A = np.vstack([T**0, T, T**2]).T b = P; x, res, rank, s = np.linalg.lstsq(A, b) print(x) n = len(b) k = len(x) sigma2 = np.sum((b - np.dot(A,x))**2) / (n - k) C = sigma2 * np.linalg.inv(np.dot(A.T, A)) se = np.sqrt(np.diag(C)) of scipy.stats.distributions import t alpha = 0.05 s T = t.ppf(1-alpha 2., n - k) # student T multiplier CI = sT * se print('CI = ',CI) for beta, ci in zip(x, CI): print('[{0} {1}]'.format(beta - ci, beta + ci) ybar = np.mean(P) Stot = np.sum((P - ybar)**2) Serr = np.sum((P - np.dot(A,x))**2) R2 = 1 - Serr/Stot print('R^2 = {0}'.format(R2))) You can see that the confidence interval in the constant and the t^2 tÃ© rmin includes zero. ybar = np.mean(P) Stot = np.sum((P - ybar)**2) Serr = np.sum((P - np.dot(A, x))**2) R2 = 1 - Serr/Stot print(R2) plt.figure(); plt.clf() plt.plot(T, P, 'k.', T, np.dot(A, x), 'b-') plt.xlabel('Temperature') plt.ylabel('Pressure') plt.title('R^2 = {0:1.3f}'.format(R2)) plt.savefig('images/model-selection-2.png') The setting looks good, and R^2 is close to one, but Ã is a good model? In a multi-core/multi-processor system, consider the diagram below ³ to understand how ³ previous program will work: Only one of the nuclei is used for the execution ³ the program and other nuclei may remain inactive. To use all the cores, the multiprocessing ³ provides a Pool class. As soon as a blockade is acquired, another process can access its ³ section until the lock is released by using method.lock.acquir() balance.value = balance.value - 1 lock.release() As you can see from the results, the final balance becomes 100 each time (which is the expected final result).Pooling between processesConsider a simple program to find squares of numbers in a given list.def square(n): return (n*n)if __name__ == "__main__": mylist = [1,2,3,4,5] result = [] for num in mylist: result.append(square(num)) print(result)Output:[1, 4, 9, 16, 25] It is a simple program to calculate squares of items from a given list. It's a good indication ³ this extra torque isn't significant. See your article on the main page of GeeksforGeeks and help other Geeks.Please write comments if you find something wrong, or you want to share more information ³ the topic discussed above. Residual are the error between the adjustment and the data. Note that temperature data is in degrees C, not K, so P=0 in T = 0.0 is not expected.

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