

A person with glasses is sitting at a desk, looking at a laptop and a monitor. The monitor displays Python code for getting the current date and time. The laptop also shows code. The background features a large green plant and a window with blinds.

Artificial Intelligence

The Super Human Guide

The Developer's Edition: Generating Code From
Natural Language Descriptions

This article contains a full Use Case to guide developers in generating code from natural language descriptions.

Generating Code From Natural Language Description

You can use ChatGPT to generate syntactically correct code blocks, and it can generate code in different languages, but it's unlikely to produce fully functional or optimized code without proper testing and debugging. ChatGPT is a language model trained on natural language processing and is capable of generating human-like text, including code snippets, based on the input provided by the user.

ChatGPT can be a useful tool for generating code templates or getting ideas on approaching a coding problem, but it should not be relied upon as the sole source of code generation without careful review and verification.

Sample Prompt:

Provide Python code implementation for calculating the Median of two sorted arrays.

Response:

Sure, here's a Python code implementation for calculating the median of two sorted arrays

Python

```
def find_median_sorted_arrays(nums1, nums2):  
  
    # Combine the two arrays into a single sorted array  
    merged = sorted(nums1 + nums2)  
  
    # Calculate the length of the merged array  
    n = len(merged)  
  
    # Check if the length is odd or even  
    if n % 2 == 0:  
  
        # If the length is even, take the average of the middle two numbers  
        return (merged[n//2] + merged[n//2-1])/2  
  
    else:  
  
        # If the length is odd, return the middle number  
        return merged[n//2]
```

To use this function, you can pass in the two sorted arrays as arguments:

```
nums1 = [1, 3, 5]  
nums2 = [2, 4, 6]  
median = find_median_sorted_arrays(nums1, nums2)  
print(median) # Output: 3.5
```

This code first combines the two sorted arrays into a single sorted array using the sorted () function. It then calculates the length of the merged array and checks whether the length is even or odd. If the length is even, it takes the average of the two middle numbers; if the length is odd, it returns the middle number.

```
import datetime

now = datetime.datetime.now()

print
print "Current date and time using str method of datetime object"
print str(now)

print
print "Current date and time using instance attributes"
print "Current year: %d" % now.year
print "Current month: %d" % now.month
print "Current day: %d" % now.day
print "Current hour: %d" % now.hour
print "Current minute: %d" % now.minute
print "Current second: %d" % now.second
print "Current microsecond: %d" % now.microsecond

print
print "Current date and time using strftime"
print now.strftime("%Y-%m-%d %H:%M:%S")
```



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