**Python TypeError: Unsupported Operand Type**

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When working with data in Python, you may encounter the TypeError: Unsupported Operand Type?. This error typically occurs when attempting to perform an operation that requires discrete values, but continuous data is provided. In this guide, we will explore the reasons behind this error and provide approaches to resolve it.

**What is TypeError: Unsupported Operand Type?**

A TypeError: Unsupported Operand Type occurs when you try to perform an operation on an object with an operand of an unsupported or incompatible type. Python expects certain types of operands for specific operations, and if you provide an operand of an unexpected type, it raises a TypeError. Here are some common scenarios that can lead to this error:

**Syntax :**

TypeError: unsupported operand type(s) for +: 'int' and 'str'

**Why does TypeError: Unsupported Operand Type Occur?**

Below are some of the reasons of TypeError: Unsupported Operand Type in [Python](https://www.geeksforgeeks.org/python-programming-language/):

**Categorical Data Mismatch**

The [TypeError](https://www.geeksforgeeks.org/handling-typeerror-exception-in-python/)occurs due to attempting to sum a list with mixed data types ([strings](https://www.geeksforgeeks.org/python-string/)and integers) causing a categorical data mismatch.

1

# Categorical Data Mismatch

2

data = ['red', 'blue', 'green', 1, 2, 3]

3

sum(data) # Attempting to sum a list containing both strings and integers

**Output:**

Hangup (SIGHUP)  
Traceback (most recent call last):  
 File "Solution.py", line 3, in <module>  
 sum(data) # Attempting to sum a list containing both strings and integers  
**TypeError: unsupported operand type(s) for +: 'int' and 'str'**

**Missing Required Discrete Values**

The TypeError arises from attempting to sum a list containing '[None](https://www.geeksforgeeks.org/python-none-keyword/)' values, representing missing discrete values in the data set.

1

# Missing Required Discrete Values

2

data\_set = [1, 2, None, 4, 5]

3

sum(data\_set) # Attempting to sum a list containing 'None' (missing discrete value)

**Output:**

Hangup (SIGHUP)  
Traceback (most recent call last):  
 File "Solution.py", line 3, in <module>  
 sum(data\_set) # Attempting to sum a list containing 'None' (missing discrete value)  
**TypeError: unsupported operand type(s) for +: 'int' and 'NoneType'**

**Incorrect Data Type**

The TypeError occurs when trying to sum a list with mixed data types, including a string element ('four'), leading to an incorrect data type in the operation.

1

# Incorrect Data Type

2

numbers = [1, 2, 3, 'four', 5]

3

sum(numbers) # Trying to sum a list with a string element

**Output**

​Hangup (SIGHUP)  
Traceback (most recent call last):  
 File "Solution.py", line 3, in <module>  
 sum(numbers) # Trying to sum a list with a string element  
**TypeError: unsupported operand type(s) for +: 'int' and 'str'**

**Fix TypeError: Unsupported Operand Type**

Below, are the approaches to solve TypeError: Continuous Format Is Not Supported in Python

**Ensure Consistent Data Types**

To avoid the TypeError, make sure all data in the collection is of the same type.

1

# Corrected Example 1

2

data = [1, 2, 3]

3

sum(data) # Summing a list of integers

4

print(sum(data))

**Output**

6

**Handle Missing Values Appropriately**

Ensure that your data does not contain missing or 'None' values, especially in situations where discrete values are expected.

1

# Corrected Example 3

2

data\_set = [1, 2, 0, 4, 5] # Assuming 0 as a replacement for missing value

3

sum(data\_set) # Summing a list of integers without missing values

4

print(sum(data\_set))

**Output**

12

**Handle Incorrect Data Types**

Cleanse the data to ensure all elements have the expected data type.

1

# Corrected Example 3

2

numbers = [1, 2, 3, 4, 5]

3

sum(numbers) # Summing a list of integers

4

print(sum(numbers))

**Output**

15