**AI-Generated Code Review with Errored Code**

**Original code:**

import numpy as np

import pandas as pd

import random

def generate\_random\_number(min\_num, max\_num):

num = random.randint(min\_num, max\_num)

print("Random number is: " + num)

def calc\_average(num\_list):

total = sum(num\_list)

return total / lenght(num\_list)

def check\_prime(start, end):

prime\_list = []

for i in range(start, end):

if i % 2 == 0:

prime\_list.append(i)

return prime\_list

def load\_data(filepath):

data = pd.read\_csv(filepath)

return data

def main():

num\_list = [10, 20, 30, "forty", 50]

print("The average is: ", calc\_average(num\_list))

print("Prime numbers: ", check\_prime(1, 10))

file\_path = "data.csv"

data = load\_data(file\_path)

print("Data loaded: ", data)

random\_num = generate\_random\_number(1, 100)

print("Generated Random Number: ", random\_num)

try:

print("Result of division: ", 10 / 0)

except ZeroDivisionError:

print("Can't divide by zero")

numbers = [x for x in range(100) if x % 3 == 0 and x % 5 == 0]

print("Numbers divisible by 3 and 5 are: ", numbers)

undefined\_function\_call()

main()

Fixed code:

import numpy as np

import pandas as pd

import random

def generate\_random\_number(min\_num, max\_num):

num = random.randint(min\_num, max\_num)

print(f"Random number is: {num}")

return num # Ensure the function returns a value

def calc\_average(num\_list):

# Ensure all elements are numbers

num\_list = [x for x in num\_list if isinstance(x, (int, float))]

total = sum(num\_list)

return total / len(num\_list) if num\_list else 0 # Avoid division by zero

def check\_prime(start, end):

prime\_list = []

for num in range(start, end):

if num > 1:

for i in range(2, int(num \*\* 0.5) + 1):

if num % i == 0:

break

else:

prime\_list.append(num) # Append only prime numbers

return prime\_list

def load\_data(filepath):

try:

data = pd.read\_csv(filepath)

return data

except FileNotFoundError:

print("Error: File not found.")

return None

except pd.errors.EmptyDataError:

print("Error: The file is empty.")

return None

except pd.errors.ParserError:

print("Error: File parsing error.")

return None

def main():

num\_list = [10, 20, 30, 50] # Removed "forty"

print("The average is:", calc\_average(num\_list))

print("Prime numbers:", check\_prime(1, 10))

file\_path = "data.csv"

data = load\_data(file\_path)

if data is not None:

print("Data loaded successfully.")

random\_num = generate\_random\_number(1, 100)

print("Generated Random Number:", random\_num)

try:

print("Result of division:", 10 / 0)

except ZeroDivisionError:

print("Can't divide by zero")

numbers = [x for x in range(100) if x % 3 == 0 and x % 5 == 0]

print("Numbers divisible by 3 and 5 are:", numbers)

# Removed undefined function call

main()

