# Fixing OpenAI API Key Authentication Error

## Issue Explanation:

The error occurs because the `openai.Client()` instance is initialized with a placeholder string instead of the actual OpenAI API key. This results in an \*\*AuthenticationError\*\*.  
  
To resolve this issue, you need to replace the placeholder string with your actual API key while initializing the OpenAI client.

## Incorrect Code:

import openai  
  
# Incorrect API key initialization  
client = openai.Client(api\_key="your\_api\_key\_here")  
  
response = client.chat.completions.create(  
 model="gpt-4o-mini",  
 max\_tokens=200,  
   
 # Enter your prompt here  
 messages=[{"role": "user", "content": "INSERT YOUR PROMPT HERE"}]  
)  
  
print(response.choices[0].message.content)

## Corrected Code:

import openai  
  
# Correct API key initialization  
client = openai.OpenAI(api\_key="<OPENAI\_API\_TOKEN>") # Replace with your actual API key  
  
response = client.chat.completions.create(  
 model="gpt-4o-mini",  
 max\_tokens=200,  
   
 # Enter your prompt here  
 messages=[{"role": "user", "content": "INSERT YOUR PROMPT HERE"}]  
)  
  
print(response.choices[0].message.content)

## Explanation of the Fix:

1. The incorrect line `client = openai.Client(api\_key="your\_api\_key\_here")` has been replaced with `client = openai.OpenAI(api\_key="<OPENAI\_API\_TOKEN>")`.  
2. `<OPENAI\_API\_TOKEN>` should be replaced with the actual OpenAI API key assigned to your account.  
3. This ensures that API requests are authenticated correctly, preventing \*\*AuthenticationError\*\* issues.