

You

How can I integrate teh following into my code to make a textbox that can be scrolled down and across if the input overflows

Code to integrate:

```
# Python Program to make a scrollable frame using Tkinter

from tkinter import *

class ScrollBar:
    # constructor
    def __init__(self):
        # create root window
        root = Tk()
        # create a horizontal scrollbar by setting orient to horizontal
        h = Scrollbar(root, orient = 'horizontal')

        # attach Scrollbar to root window at the bootom
        h.pack(side = BOTTOM, fill = X)

        # create a vertical scrollbar-no need to write orient as it is by default vertical
        v = Scrollbar(root)

        # attach Scrollbar to root window on the side
        v.pack(side = RIGHT, fill = Y)

        # create a Text widget with 15 chars width and 15 lines height
        # here xscrollcomannnd is used to attach Text widget to the horizontal scrollbar
        # here yscrollcomannnd is used to attach Text widget to the vertical scrollbar
        t = Text(root, width = 15, height = 15, wrap = NONE,
                 xscrollcommand = h.set, yscrollcommand = v.set)

        # insert some text into the text widget
        for i in range(20):
            t.insert(END,"this is some text\n")

        # attach Text widget to root window at top
        t.pack(side=TOP, fill=X)

        # here command represents the method to be executed
        # xview is executed on object 't'
        # Here t may represent any widget
        h.config(command=t.xview)

        # here command represents the method to be executed
        # yview is executed on object 't'
        # Here t may represent any widget
        v.config(command=t.yview)

        # the root window handles the mouse click event
        root.mainloop()

# create an object to Scrollbar class
s = ScrollBar()
```

My code:

```
#Importing the modules
import vertexai from vertexai.generative_models
import GenerativeModel
import google.auth
from tkinter import *

credentials, project_id = google.auth.default()
vertexai.init(project="generalpurposeai", location="us-central1")
model = GenerativeModel(model_name="gemini-1.0-pro")

class ChatbotWindow(Tk):
    def __init__(self):
        super().__init__()
        self.title('AI Cover Letter Writer')

        # Create text widget for conversation
        self.conversation = Text(self, state='disabled')
        self.conversation.pack(expand=True, fill='both')

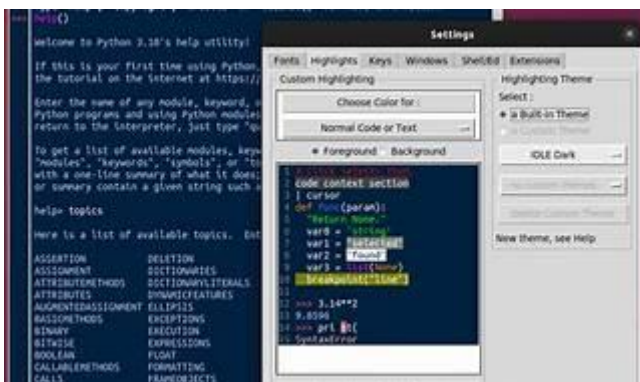
        # Create entry widget for user input
        self.user_input = Entry(self)
        self.user_input.pack(side='left', expand=True, fill='x')

        # Create send button
        self.send_button = Button(self, text='Send', command=self.send_message)
        self.send_button.pack(side='right')

    def send_message(self):
        prompt = self.user_input.get()
        if prompt:
            # Add user message to conversation
            self.conversation.configure(state='normal')
            plaintext_prompt = f"""Given the contents of my CV (Resume) and the job description which are
below:
\nMy Resume/CV is as follows: {prompt}
The job description is as follows: {prompt} \
\nPlease generate an appropriate cover letter."""
            responses = model.generate_content(plaintext_prompt, stream=True)
            for response in responses:
                self.conversation.insert('end', response.text)
            self.conversation.insert('end', '\n')
            self.conversation.configure(state='disabled')

if __name__ == "__main__":
    window = ChatbotWindow()
    window.mainloop()
```

Copilot



To integrate a scrollable textbox into your existing code, you can use the `ScrolledText` widget from the `tkinter.scrolledtext` module. This widget simplifies the process of adding both vertical and horizontal scrollbars to a `Text` widget. Here's how you can modify your `ChatbotWindow` class to include a scrollable textbox:

```
# Importing the modules
import vertexai
from vertexai.generative_models import GenerativeModel
import google.auth
from tkinter import *
from tkinter.scrolledtext import ScrolledText

credentials, project_id = google.auth.default()

vertexai.init(project="generalpurposeai", location="us-central1")

model = GenerativeModel(model_name="gemini-1.0-pro")

class ChatbotWindow(Tk):
    def __init__(self):
        super().__init__()
        self.title('AI Cover Letter Writer')

        # Create scrolled text widget for conversation
        self.conversation = ScrolledText(self, wrap=NONE)
        self.conversation.pack(expand=True, fill='both')

        # Create entry widget for user input
        self.user_input = Entry(self)
        self.user_input.pack(side='left', expand=True, fill='x')

        # Create send button
        self.send_button = Button(self, text='Send', command=self.send_message)
        self.send_button.pack(side='right')

    def send_message(self):
        prompt = self.user_input.get()
        if prompt:
            # Add user message to conversation
            self.conversation.configure(state='normal')
            plaintext_prompt = f"""\nMy Resume/CV is as follows: {prompt}
            The job description is as follows: {prompt}
            \nPlease generate an appropriate cover letter."""
            responses = model.generate_content(plaintext_prompt, stream=True)
            for response in responses:
                self.conversation.insert('end', response.text)
            self.conversation.insert('end', '\n')
            self.conversation.configure(state='disabled')

if __name__ == "__main__":
    window = ChatbotWindow()
    window.mainloop()
```

This modification uses the `ScrolledText` widget, which automatically includes both vertical and horizontal scrollbars when the text overflows^{[1](#)[2](#)}. This should make your `ChatbotWindow` more user-friendly by allowing users to scroll through the conversation easily.

^{^1^}: [GeeksforGeeks - Python Tkinter ScrolledText Widget](#) ^{^2^}: [Python Documentation - tkinter.scrolledtext](#)

Feel free to ask if you need further assistance!

Learn more: [1. www.geeksforgeeks.org](#) [2. www.askpython.com](#) [3. stackoverflow.com](#)
[4. customtkinter.tomschimansky.com](#) [5. docs.python.org](#) [6. www.pythontutorial.net](#)
[7. www.w3resource.com](#) [8. getdocs.org](#) [9. en.wikipedia.org](#)

Conversation by Fifa Utuber with Copilot on Sunday, Sep 8 2024