**chatboat**

import nltk

from nltk.chat.util import Chat, reflections

import tkinter as tk

from tkinter import scrolledtext

# Define chatbot responses using pairs

pairs = [

[r"hi|hello|hey", ["Hello! How can I assist you today?", "Hi there! How can I help?"]],

[r"how are you?", ["I'm just a bot, but I'm doing fine! How about you?"]],

[r"(.\*)your name?", ["I'm a chatbot, here to assist you."]],

[r"bye|goodbye", ["Goodbye! Have a great day!", "Bye! Take care!"]],

[r"(.\*)", ["I'm not sure how to respond to that. Could you rephrase?"]]

]

# Create chatbot

chatbot = Chat(pairs, reflections)

# Send message function

def send\_message():

user\_input = user\_entry.get()

if user\_input.strip() == "":

return

chat\_history.insert(tk.END, f"You: {user\_input}\n")

response = chatbot.respond(user\_input)

chat\_history.insert(tk.END, f"Bot: {response}\n\n")

user\_entry.delete(0, tk.END)

# GUI setup

root = tk.Tk()

root.title("Simple Chatbot")

chat\_history = scrolledtext.ScrolledText(root, wrap=tk.WORD, width=50, height=15)

chat\_history.pack(padx=10, pady=10)

user\_entry = tk.Entry(root, width=40)

user\_entry.pack(padx=10, pady=5)

send\_button = tk.Button(root, text="Send", command=send\_message)

send\_button.pack(pady=5)

root.mainloop()