e-Portfolio Activity: Improving Code Quality.

Refer to the Mertz (2019) resource. Use some Python code which you have developed in the past and apply at least 3 of the strategies presented at the source to improve its quality. You can use the Jupyter Notebook workspace in Codio and save your work to your GitHub repository.

Strategies applied

1. Do not use tabs

I was using the tabs before as a bad habit. By applying this strategy, I have fix my python code by using 4 space per indentation level.

2. Align the arguments

Keep argument lined up and indented to distinguish between arguments listed. I have apply this practice in my code (line 48)

3. Line length

Keep a consistent max line length no more than 88 characters.

My codes after modifications

```
# DearPyGUI Imports
from dearpygui.core import *
from dearpygui.simple import *

# functions.py Imports
from functions import categorize_words, pre_process, predict

pred = []

def check_spam(pred):
    # button callbak function
    # runs each time when the "Check" button is clicked
    with window("Simple SMS Spam Filter"):
        if pred == []:
            # runs only once - the the button is first clicked
            # and pred[-1] widget doesn't exist
            add_spacing(count=12)
            add_separator()
            add_spacing(count=12)
        else:
            # hide prediction widget
            hide_item(pred[-1])
        # collect input, pre-process and get prediction
        input_value = get_value("Input")
        input_value = pre_process(input_value)
        pred_text, text_colour = predict(input_value)
        # store prediction inside the pred list
        pred.append(pred_text)
        # display prediction to user
        add_text(pred[-1], color=text_colour)
```

```
# window object settings
set_main_window_size(540, 720)
set_global_font_scale(1.25)
set_theme("Gold")
set_style_window_padding(30, 30)

with window("Simple SMS Spam Filter", width=520, height=677):
    print("GUI is running...")
    set_window_pos("Simple SMS Spam Filter", 0, 0)

    # image logo
    # create some space for the image
    add_drawing("logo", width=520, height=290)

    add_separator()
    add_spacing(count=12)
    # text instructions
    add_text("Please enter an SMS message of your choice",
             color=[232, 163, 33])
    add_spacing(count=12)
    # collect input
    add_input_text("Input", width=415, default_value="type message here!")
    add_spacing(count=12)
    # action button
    add_button("Check", callback=lambda x, y: check_spam(pred))

# place the image inside the space
draw_image("logo", "logo_spamFilter.png", [0, 240])

# IF THE PREVIOUS LINE OF CODE TRIGGERS AN ERRROR TRY
# draw_image("logo", "logo_spamFilter.png", [0,0], [458,192])

start_dearpygui()
print("Bye Bye, GUI")
```